

Dreams - Visions - Mission of Dr. Kalam

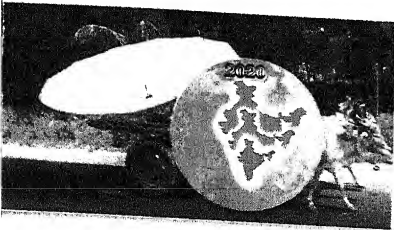


As a child...

he was fascinated by the flight of seagulls and cranes, dreamt to fly high in the sky

As a Scientist...

he dreamt to make India self
reliant in technology



As a Visionary...

he dreamt and developed second
vision and mission for developed
India 2020

Realise!

A boat without a sail,
a man without a vision and mission
can never reach a destination

Have a Vision and Mission for Life and the Nation

Vision 2020
National Movement Series...
**Develop yourself
and the Nation**



President

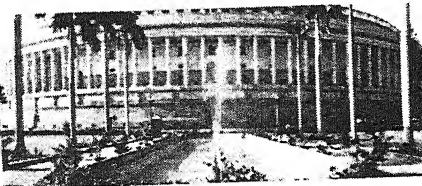
Kalam's

call to the nation

ignites young minds

Concepts of our beloved President
Dr. A.P.J. Abdul Kalam

Authored & Compiled by
Dr. N.B. Sudershan
Ph.D. (Human Values)





Kalam's Call To The Nation

"Kalam's Call to the Nation"

(Ignites young minds to develop themselves and the nation)

Author & Compiler :

Dr. N.B. Sudershan, Ph.D (Human Values)

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Kalam's Call To The Nation

National Prayer

*The grand scene of birth of Independent India
In that mid-night, the flag of the ruler of two centuries lowered;
The tri-colour Indian flag flaps in the Red Fort in the midst of National Anthem.
The first vision of independent India was dawned.*

*The rejoice everywhere, happiness all around,
There was a tender cry: Where is the father of the nation?
The white clothed soul walking in the midst of sorrows and pain,
Injected by hatred and ego, the result of communal violence.*

*The father of the nation, Mahatma, walking bare footed
In the streets of Bengal for peace and harmony.
With the strength of blessed soul of Mahatma
I pray the Almighty: When will be the dawn of second vision?*

*Create thoughts in the minds of my people,
And transform those thoughts into action.
Embed the thought of Nation being bigger than
The Individual, in the minds of leaders and people.*

*Help all the leaders of my country to give strength
And bless the nation with peace and prosperity.
Give strength to all my religious leaders to bring
'Unity of Minds' among all our billion people*

*Oh Almighty, bless all my people to work and transform
Our country from a developing into a developed nation.
Let this second vision be born out of sweat of my people,
And bless our youth to live in Developed India.*

A.P.J. Abdul Kalam

Prayer invokes devotion & self discipline.



Kalam's Call To The Nation



CLARION CALL TO THE NATION

We are proud to share the clarion call to the nation by our beloved Rastrapathi Dr. A.P.J. Abdul Kalam that. *"A century back all the Indians struggled for the first vision of Independence. Such a vision is now missing in free India. So we need to initiate an agenda for the nation with the second vision for developed India 2020"*. His plan to achieve this vision is firing up 700 million youth out of which 300 million are children, who will be running the Country in 2020. He says "If I influence one in a thousand, think what a difference it makes. My goal is to meet 1 lakh children in one year". But now he has already met more than 1.5 lakh children in less than a year. To achieve this he is working overtime, he invites them regularly to Rastrapathy Bhavan, calls them in groups even in his official tours.

Thus, it is high time that every one, particularly educationists, should join and work like him by uniting our minds, formulating action teams to ignite young minds and bring mass awareness to lead a national movement to take India to the top of the world by creating SWARNA BHARATHI and SWARNANDHRA by 2020.



LEAD

**(Leadership Awareness and Development)
NATIONAL MOVEMENT'**

JAI SWARNA BHARATHI

JAI SWARNANDHRA

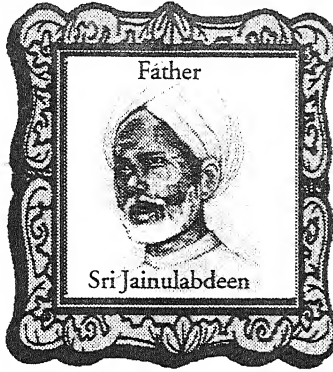


DEDICATED

to

Dr. Kalam's Parents

Sri Jainulabdeen & Smt. Ashiamma



and

Teachers

Sri Pakshi Lakshmana Sastry

Sri Sivasubramania Iyer

Sri Iyandurai Solomon

Sri Ramakrishnam Iyer

Prof. Sri K.A.V. Pandali

Prof. Sri Narasingha Rao

who carved the great personality of

our beloved President

Bharata Ratna Dr. A P J Abdul Kalam

Nation is proud of Bharata Ratna Dr. A.P.J. Abdul Kalam



**CHIEF MINISTER
ANDHRA PRADESH**



Release of “ Kalam’s Call to the Nation”

Hon’ble Chief Minister Sri Nara Chandra Babu Naidu released this book on Guru Pournami Day, July 13th 2003 at Basara Gnana Saraswathi abode. While releasing the book he said that “this book on the life and personality of our beloved President Bharat Ratna Dr. A.P.J. Abdul Kalam should really ignite fire in children & youth. It is worth while for every student to read this book. It helps students to set their personal goals and National goals.

I congratulate Dr. N.B. Sudershan who compiled the book for his dedicated efforts to publish such valuable information on Dr. Abdul Kalam. I wish him all success in this noble effort”.

Dr. Kalam is a role model to the nation.



Kalam's Call To The Nation



PRAHLADA
OUTSTANDING SCIENTIST,
DIRECTOR

GOVERNMENT OF INDIA
MINISTRY OF DEFENCE
DEFENCE & D ORGANISATION
DEFENCE RESEARCH AND
DEVELOPMENT LABORATORY
P.O. Kanchanbagh,
Hyderabad - 500 058, A.P., INDIA

FOREWORD

It gives me great pleasure to find a place in this book on Dr. Kalam which is actually a message to the *Youth of the Nation*. I would specially like to congratulate Dr. Sudershan who has spearheaded this movement on rebuilding India's Youth Force. He has put in extraordinary efforts for compiling the various facets of Dr. Kalam in a very handy volume.

I have worked with Dr. Kalam for twenty years. I have always felt it very difficult to capture his total personality into one volume. One has to interact with him, move with him, live with him, walk with him and attend his late night meetings to know his inner strength and vision. Unfortunately, not every young person gets such an opportunity. For such people, this book forms a very effective medium for moving as close to Dr. Kalam as possible.

I am sure, this compilation by Dr. Sudershan will ignite millions of *young minds* and ensure that *fire* in them will *acquire wings and fly high*.

-PRAHLADA

This book ignites fire in young minds to fly high - PRAHLADA



Kalam's Call To The Nation

SENSE THE FIRE OF YOUTH LEADERS

Involved in the compilation of this book



The power of dreams and the way they should be transformed into reality is revealed to all those who study Dr. Kalam's steps to success. His positive approach to situations of life, the manner in which he faced them and learnt from them would automatically induce optimism in all those who study him. A real scientific temper is aroused in those who read this book.

P. Narotham, B.Tech. II (E.C.E)



I read Dr. Kalam's autobiography at that stage of my life when I was in complete distress and had lost all hopes of doing my Master's Degree in the U.S. I was so inspired by the incidents of his life that I have started preparing for Gate examination leaving the past behind me. Dr. Kalam says, "Low Aim Is Crime" and this inspired me to aim for the top rank in the Gate examination. I am sure that this book will surely be inspiring to one and all, particularly the youth.

V. Ajay Kumar, B.E. (Computer Sciences)



Dr.Kalam's life is a platform to build one's own personality. His positiveness in the haze is the key to his success. This optimism in adversities has inspired me to build my professional career.

Dr. Kalam's vision to see India developed in all respects illuminates every Indian that individual development ultimately leads to the nation's development, and the nation's pride is an individual's strength. It was the youth who were responsible to fulfill India's first vision, which was India's Independence. And it will be the youth who will play a leading role in fulfilling India's second vision, that is a developed India.

E.B.S.Prasad, M.Sc. (Computer Sciences)

Dr. Kalam' life, an inspiration to the youth.



What Do You Know About Dr. Kalam ?

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I must acknowledge the compilation of data by all our Oasis school of excellence students and staff particularly Ms. A. Lakshmi Reddy, Shubha Krishnan, A. Srinivas Kumar, Ramakrishnappa. D.N., and management especially our president G.Pullu Reddy, P. Subba Reddy. Mention must be made about Prof. P. Arjun Reddy, Social Scientist & Sri Mudunuru Venkateswara Rao, Telugu Translator who worked against their age in editing this book. Last but not the least, I, appreciate the efforts of my beloved youth leaders Narotham, Prasad, Ajay, Anusha, Madhavi, Vinaya, Ragini and Vishali budding engineers who toiled days and nights untiringly in compiling this book. My thanks are due to many fine people, who have selflessly enriched me and this book in a way beyond description.

I would like to thank people in general who have provided useful information on Dr. Kalam through their publications.

My thanks are due to Ms. Padmaja of Marker Fast Prints, for patience data entry, Sri Jagan Mohan Reddy, Karshak Art Printers for elegant timely printing, Sri Ram Reddy, Priyadarshini Ads for designing cover and Sri Gita Subba Rao for drawing Cartoons.

- Author

Nation is greater than individual.



Kalam's Call To The Nation

PREFACE

India is proud of her beloved President, Bharat Ratna Dr. APJ Abdul Kalam, a great inspiring national leader. Every Indian needs to know how his personality developed from that of a paperboy to the President of India; how value system was inculcated in him; what is the secret of his achievements; and what is his vision and plan for developed India 2020.

His life is a classic example of how an individual's development leads to national development. If all Indian minds are ignited like that of Dr. Kalam, which force on earth can stop India to be the world leader? This book is compiled with essential content, in simple language and affordable cost as a service to inspire children, youth, parents, teachers, leaders and every one, to be the working force for a developed India. Dr. Kalam is a role model for all of us, right from a dreaming child to a great visionary. The incidents related to this process of his transformation would certainly inspire all, especially the youth and children. Collection of facts, incidents and anecdotes related to his life, will help the readers to realize and channelise their hidden potentials. This book is aimed to be prescribed by the heads of schools and colleges to teachers and parents to emulate Dr. Kalam as a role model to inculcate human values, ignite scientific temper and patriotic spirit in students to transform them into enlightened citizens and to set national agenda in their minds to lead national movement like freedom movement to develop themselves and the nation by 2020.

This book inspires all Indians with Kalam's 'Kamaal' so that every Indian can become a Kalam, and mobilize as a great human force to take India to the peak.

- Author

O! God do your Kamaal to make all Indians "Kalams"



Kalam's Call To The Nation

Kalam Saab Apko Salam Saab

A phone call from Kalam Saab made a Dilhi Kamaal
A pleasant surprise, given me
Fruits of joy for the work of
"Kalams Call to the Nation".
On your soft talk, personal touch
Appreciation of the work
Heart melted, tears rolled
Admiring missile man now
A mission man for millions
Igniting young minds to dream big
With a Vision and Mission
To develop themselves and the nation.
This book is a compilation of
Your life, works and messages
To carry on your Mission to millions of Indians.
It is difficult to capture your total Personality
Every bit is a big lesson for every one
A peep into your heart and mind
You are an embodiment of Human Values
Resulted into Human Excellence.
A great role model to emulate
India got after a long time
Kalam saab Apko Salam Saab
O!! God do your Kamaal to give our
Kalam long long life with sound health and happiness
To make all Indians "Kalams"
To take India on top of the world by 2020
Kalam Saab Apko Salam Saab!

-Dr.N.B.Sudershan

Kalam Saab Apko Salam Saab



Kalam's Call To The Nation

INDIAN PRESIDENTS



Dr. Sarvepalli Radha Krishnan
(1962-67)



Dr. Babu Rajendra Prasad
(1950-62)



Dr. Jakhir Hussain
(1967-69)



V.V. Giri
(1969-74)



Fakhruddin Ali Ahmed
(1974-77)



K.R. Narayanan
(1997-2002)



Shanker Dayal Sharma
(1992-97)



R. Venkatraman
(1987-92)



Neelam Sanjeeva Reddy
(1977-82)



Giani Jai Singh
(1982-87)

*Dr. A. P. J. Abdul Kalam Swearing as Eleventh President of India
on July 25, 2002.*

You are the creater of your own destiny.



Kalam's Call To The Nation

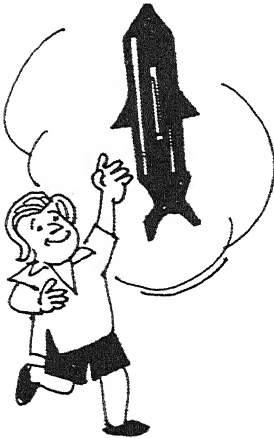
Dr. Kalam's Dreams... Dreams... Dreams...



Dreaming to fly high



Searching for wings



Wings found in flights



Vision for missiles

Sky is the limit. Dream Big.



1. POWER OF DREAMS - VISION TO MISSION

How childhood dreams work?

Dr. Kalam, as a child, observing the flight of seagulls and cranes, dreamt to fly high in the sky and his dreams led to many inventions. Similarly, Einstein's inventions were also based on his childhood dreams. Mendeleef's periodic table is also a result of his dreams. A well-known business man Dhirubhai Ambani who dreamt high in his early childhood could achieve great heights. Another scientist, Neil Bohr could propose the structure of an atom due to his dreams. Kekule, proposed the structure of benzene, an organic compound, which appeared in his dreams. Thus dreams can turn into real vision and mission for life.

Work hard to realize your dream and believe that today's work will lead to a better tomorrow. Do not be carried away by instant results but work to achieve long term goals. Gita also says that one should work hard without thinking about the result.

*"Karmanye Vadhikaraste Maa Phaleshu Kadachana Maa
Karma Phala Heturbhuhurmathe Sangyostwa Karmane"
(Gita 2-47).*

How did Dr. Kalam's quest for knowledge begin?

Dr. Kalam says, "I would like you, dear youth, to have a mind to explore every aspect of human life. Look at the sky. We are not alone. The whole universe is friendly to us and conspires to give the best to those who dream. Chandrasekhar Subramaniam discovered the black hole in the sun. Basing on the theory of Chandrasekhar we can calculate how long the sun will shine. Sir C.V. Raman looked at the sea and questioned himself why the sea should be blue and his investigation gave birth to the Raman effect.

Big dreams empower.



Kalam's Call To The Nation

Albert Einstein, armed with the complexity of the universe postulate. The famous equation $E=mc^2$ arrived when $E=mc^2$ which helped the noble souls to produce electricity using nuclear materials. The same equation in the hands of extreme political thinkers, led to the destruction of Hiroshima.

My dear friends, wouldn't you like to become noble minded like Mahatma Gandhi or a great intellectual like Sir C.V. Raman or Einstein, or Chandrasekhar Subramaniam. Look at the marvels of your universe. You can become a great thinker and action will follow.

In fact, Dr. Kalam's goal of flying high in the sky was rooted in his observation of the flight of seagulls. Dr.Kalam revealed that, *"on a dark night, looking at the sky, trying to fathom the secrets of the universe was how the quest for knowledge began in me"*. This was furthered by his 5th class teacher who inspired him by teaching a lesson on aeroplanes. Those childhood dreams gradually led to his study of aeronautical engineering. He has been the driving spirit to invent missiles and to take India to the fifth place in the world. All the success of Dr.Kalam can be attributed to his ability to 'dream big' and eventually 'aim high'. The process of success is simple. Students have only one capital to invest and that is knowledge. The more of it invested, the better would be the success", says Dr. Kalam.

Dream to Reality

- Dream..... Dream..... Dream Big;
- Dreaming leads to thinking;
- Thinking leads to knowledge;
- Knowledge leads to progressive action;
- Progressive action leads to a far-sighted vision;
- Vision leads to mission

If the dreams are for a noble cause, the universe conspires and helps to realize those dreams.

Expand intellect - Explore human life.



Vision

Dr. Kalam says that each person must develop visions for life. Dr. Sarabhai had a vision in the 1960s that India should have satellites. Now that vision has been transformed into reality, we can launch any type of satellite. Dr. Kalam as a follower of Sarabhai, dreamt and conceived the task as his vision and mission. Though he is an engineer-turned administrator-turned scientist, he taught his peers and subordinates to think big, aim high and to think well of one's own abilities. He inspired and encouraged them at every stage. For example, at a time when India was still to build a decent civilian or military plane, he has been planning a hypersonic plane that can fly at 15 – 20 times the speed of sound, using still undeveloped and even unknown technologies. With such great vision and mission he could successfully bring India to the 5th position in the world in missile technology. Thus he is known as the missile man.

Mission

Now, as the President of India, his dreams for a Developed India took the form of Vision-2020. One of the main missions of this vision is to eradicate poverty of 300 million Indians who are below the poverty line. In this way, the realization of individual dreams leads to the phenomenal growth of individual personality, sporting values like far- sightedness, enthusiasm, courage, will-power and above all self-confidence. They also lead to national development with values like peace, prosperity and happiness throughout. For building a better tomorrow, there is no other solution except dreaming high today. So, today's dream is tomorrow's reality.

Sky is the limit for a person who knows the secrets of realizing their dreams.

Dreams lead to thinking, vision and mission.



Kalam's Call To The Nation

WAYS TO REALISE DREAMS

Dreaming alone doesn't realise any thing, it has to be united with the following principles.

- 1) Think ways to realize dreams;
- 2) Think...Rethink to plan for realizing your dreams;
- 3) Act swiftly to implement plans;
- 4) Stick-to-it-ivity or single-mindedness;
- 5) Be clever in your work;
- 6) Let each step lead to the realization of your dream.

Dream with your ideas, live with your ideas, sleep with your ideas, let your ideas be with yourself until your dreams are realized!



Without realising dreams life is waste.



Kalam's Call To The Nation

2. WHO IS Dr. KALAM ?

Name	: <i>Avul Pakir Jainulabdeen Abdul Kalam</i>
Father's Name	: Jainulabdeen
Mother's Name	: Ashiamma
Date of Birth	: 15-10-1931
Place of Birth	: Mosque Street in Rameshwaram(Tamil Nadu)
Education	
Primary School	: Rameshwaram Elementary School.
Sec. School	: Schwartz High School.
Degree	: St. Joseph's College in Tiruchirapalli.
Engineering	: Aeronautical Engineering from the Madras Institute of Technology.
Training	: Hindustan Aeronautics Limited Bangalore; NASA (USA).
Career Details	: DTD & P (Air) Directorate, New Delhi; Aeronautical Establishment, Bangalore; Indian Committee for Space Research, Mumbai; Equatorial Rocket Launching Station, Thumba (Kerala); Defence Research Development Laboratory, Hyderabad.

Learning has no age.



Kalam's Call To The Nation

- Designations** : Principal Scientific Advisor to the Prime Minister (Status equal to cabinet member).
- Achievements** : AGNI, PRUTHVI, AKASH, TRISHOOL, NAG.
- Doctorates** : About 30 Doctorates from various Universities
- Honours & Awards** :
- Bharat Ratna, 1997
 - National Design Award, 1980
 - Padma Bhushan, 1981
 - D Sc (Honoris Causa), Anna University of Technology, 1982
 - Dr. Biren Roy Space Award, 1986
 - Omprakash Bhasin Award for Science and Technology, 1986
 - Padma Vibushan, 1990
 - D Sc (Honoris Causa), Jadavpur University, 1990
 - H K Firodia Award for Excellence in Science and Technology, 1996
- Vision** : To achieve a developed India by 2020.
- Mission** : To lead a national movement for a developed India.

Wake up, take up, make up and that is the way to come up.



Kalam's Call To The Nation

3. PROFILE

A dreamer, motivator, scientist and a great visionary, Dr Avul Pakir Jainulabdeen Abdul Kalam, who has sworn as the country's 12th president, was born on 15th October, 1931 to Jainulabdeen and Ashiamma at Rameswaram in Tamil Nadu. He inherited his father's honesty and discipline and his mother's faith in goodness and kindness. Kalam has three brothers and a sister.

Education :

V. Subramaniam Iyer his teacher in Class V gave him the vision to fly. His teachers ignited his dormant creativity, and thus helped him to become an Aeronautical Engineer. They instilled in the young boy the virtues of hard work, which made him cross so many milestones in his life. The same spirit of childhood is still vivid even after he became the President of India. After he completed his Bachelor's degree, his sister Zohara's determination to see him educated and her faith in his abilities made her pawn her gold bangles and chain to secure his admission into the prestigious Madras Institute of Technology, where he studied Aeronautical Engineering. Saluting his teachers, Dr. Kalam says, *"In the course of my studies, three teachers who structured my professional career were Prof. Sponder, Prof. K A V Pandali and Prof. Narsingha Rao."* In 2002 he became the president of India with a vision and mission to inspire Indians to transform India into a Developed India by 2020.

Professional Career

- Dr Kalam began his career as a Senior Scientific Assistant in Aeronautical Development Establishment, Bangalore in 1958.

Educate the mind to think big.



Kalam's Call To The Nation

- He served the Indian Space Research Organization (ISRO) in various capacities from 1963 to 1982. He was responsible for the design, development and injection of the Rohini satellite into the earth's orbit using SLV-3.
- In 1982, Dr. Kalam became the Director, DRDL at Hyderabad. He was entrusted with the Integrated Guided Missiles Development Program. He conceived the program constituting five major projects.
- He led a young and strong team that developed and successfully flight-tested Prithvi, Trishul, Akash, Nag and Agni. The successful launching of Agni, a surface to surface missile, made India a member of an exclusive club of highly developed countries.
- As Chairman, Program Management Board for IGMDP, he established a unique three-tier management structure to intergrate technologists, academic institutions and industries.
- In 1992 he took charge of DRDO as scientific adviser to the Defence Minister, Government of India, and provided impetus to Arjun Tank, Light Combat Air Craft (LCA).
- From 1999 to 2001 he worked as Principal Scientific Adviser to the government of India to further the concept of India Millennium Mission 2020, a blueprint for transforming India into a developed nation.

Dr. Kalam is not only a scientist, but also a great patriot and social worker, concerned about the poor and the needy. He showed his patriotism by strengthening India's missile technology. His concern for the common man is reflected in deploying his scientific temper in the service of ordinary people. In this quest he helped invent callipers for the physically challenged patients, and along with Dr. B. Soma Raju, an eminent cardiologist, designed

Dedication to profession ignites hidden potentials.



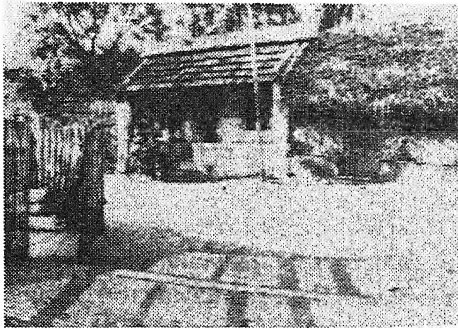
Dr. KALAM'S MENTORS AND MONUMENTS



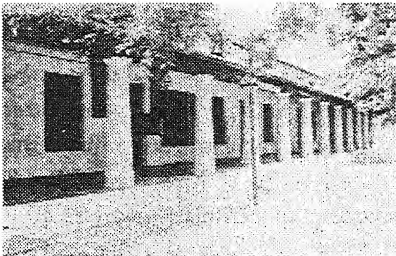
*Jainulabdeen
Father*



*Pakshi Laxmana Sastry
(Kalam's Gita Guru, Rameshwaram)*



Dr. Kalam's House



*Dr. Kalam's
Schwartz High School*



Dr. Kalam's Teachers

Parents, teachers and society mould personality.



Kalam's Call To The Nation

the "Kalam-Raju Stent", a cath-lab available at a very affordable price. He also established a mobile treatment unit to serve those who cannot afford expensive medical services. He says, *"I will use my knowledge to solve your problems."*

Dr. Kalam leads a simple life. Though he has occupied the highest echelons, he never showed interest in acquiring materialistic possessions and earnings. His hobbies include walking, reading, and learning new things. He showed interest in learning music at the age of 50. He is fond of making friends with children and can spend hours talking to them. He corresponds with them through e-mails and letters. He believes that respect for others is an essential ingredient of development and this could be achieved by including a value system in the country's education system for children. He says that technology should always be used to strengthen the economy of the Country, in order to eradicate poverty.

He envisaged a great vision for India. He declares, *"I will work and sweat for a great vision, the vision of transforming India into a developed nation, powered by economic strength with value system".* He wants every Indian to live and strive for this vision. His message to children and youth is : *"Nation is greater than an Individual. Making India strong and self-reliant – economically, socially and militarily – is our foremost duty to the motherland."*

Vision 2020 (1998), *Wings of Fire* (1999), *Igniting Minds* (2002) and *Eternal Quest* (2002) were written to ignite the minds of young children and youth. Dr Abdul Kalam is a shining example of how a true Indian ought to dedicate himself to his country and feel proud of her. He is an example that each of us would do well to follow. He is the true son of India. He declares: *I will keep the lamp of knowledge burning to achieve Vision 2020, a developed India.*

Professional career with human values makes human excellence.



Kalam's Call To The Nation

4. WHAT IS Dr. KALAM ?

Know through others

- Dr. Kalam is a man with no ego and of noble character. He believes in oneness and has no special concern towards any religion. He never went to foreign countries for studies or job. His efforts to keep up the name of the nation are incomparable.

Bhagavan Sri Satya Sai Baba

- Dr. Kalam is an ideal person who reached great heights through his exclusive hard work. Our country will ascend the steps of success and transform into a developed country under the leadership of Dr. Kalam.

Sri Nara Chandra Babu Naidu

- Granting the presidency to Dr.Kalam indicates the secular discipline of our country.

Sri VidyaSagarRao

- This project would definitely become a success because there is always a man present behind this, who always slept near rocket beds. He is none other than Dr. Kalam.

Mr Satish Dhawan

- Dr. Kalam has been a role model in simple living and high thinking, inculcating a scientific temper and envisioning a developed India.

Dr. Kakarla Subba Rao

A person who practises values is always praised.



Kalam's Call To The Nation

- Dr. Kalam is not only a 'Missile Man' but also 'A Man of the poor and the needy'. Every Indian is proud of him.

Dr.B.SomaRaju (Co-Inventor of Kalam-Raju stent)

- Dr. Kalam develops creativity and team spirit among the young scientists of India.

Dr. Arun Tiwari (Dr. Kalam's biographer)

- Talking with Dr. Kalam itself is nothing but learning things.

Col. Prasad Rao (Dr. Kalam's Colleague)

- Dr. Kalam is the Great man who always thinks about the benefit of the layman. Dr.Kalam's spirit of doing something for the country should be present in each and every citizen.

Dr. B.N.Prasad (Co-scientist)

- We notice that there is no change in Dr. Kalam's thinking and character even after becoming the honorable President of India. Dr. Kalam's spirit of working for the nation and imbibing dedication among the young scientists is appreciable and still alive.

Senior Scientists of CCMB

- Dr. Kalam will be the right representative of Indianhood. His victory itself indicates that every religion has equal respect in our Indian culture. It has been observed that Dr. Kalam's presidentship enabled joy and happiness all over the country.

K.Sudershan Chief of RSS

Dr. Kalam develops creativity and team spirit.



Kalam's Call To The Nation

- Dr. Kalam is very much needed for our country and he will make the scientific community of our country go in the right direction.

Mr. K.Rama Rao – MIT room-mate

- Dr.Kalam used to write only with pencils made in India and wore only Indian clothes. He also suggests others to use Swadeshi items.

Nooruddin (Dr.Kalam's schoolmate)

- Dr. Kalam often used to come to my house for reading books on history, science and biography. He used to forget himself and the world while reading those books. He would read even four books in a day. He used to ask me about the Second World War. Such a great man not only developed my village but also did marvellous deeds. Whenever he visits Rameshwaram he won't return without meeting me and enquiring about my library. He is exactly suitable for taking up the presidency of India.

Mr. Manikyam (Neighbour of Dr. Kalam)

- Dr. Kalam is a boon to our nation. He is born gentle and gentle in truth. He is the personification of courtesy and charm, compassion and catholicity, discernment and discipline, decency and dignity, elegance and etiquette, nicety and nobility, perseverance and patience, simplicity and sincerity, understanding and uprightness. His mind is a mansion of noble thoughts and ennobling ideals.

Mr. Mudunuru Venkateswara Rao
(Educationist - Senior Journalist)

Dr. Kalam is a boon to our nation.



Kalam's Call To The Nation

5. Dr.KALAM, AN ADULT CHILD WITH CHILDREN

Among national leaders after Chacha Nehru it is Dr. Kalam who loves children. He has become one with the younger generation with his exhortations to dream big. At his presidential swearing-in ceremony, for the first time in Indian history, 100 school children were invited as special guests. As children are the hope of the country, Dr. Kalam, with a vision to ignite them with scientific temper and patriotism for developed India 2020, left his position as scientific adviser to the Prime Minister and started a mission to meet and inspire one lakh students. About his mission he says *"there are 300 million children in the country - a third of our population. If I influence even one in thousand out of them, think what a difference it makes"*. In every meeting he meets children and answers their queries, replies to their letters and about 400 e-mails everyday, giving them direction to dream, dream big and develop thinking power to work for developed India. At every convocation he presides over, he insists that students be moved to the front row. So that he can see them while speaking.

Dr. Kalam is The Peoples president who has already visited 21 states and met 1.5 lakhs school students in 10 months to find a common parameter for a developed India. For a girl in Tornai, Khandwa in Madhya Pradesh, a "high school" is "Developed India", and for a child in Nagaland, "ropeway between two hillocks" is the "Developed India".

Dr. Kalam's interaction with children in schools has not just brought a smile on their faces but has also inspired them to think big and dream big, something which he did as a child in Rameshwaram. He said, *"71 years have passed by, as a child I dreamt. Many others did it. On a dark night, looking at the sky, trying to fathom, the quest for knowledge began in me."*

The children too feel happy being with him and listening to his advice in short capsules charmed by him, they tell him things they have never told even to their parents before.

Children are the hope of the nation.



- *Student:* Who would be the first scientist in the world?
(*St. Mary's High School, Dundigal*)

Dr. Kalam: Science was born and survives only by questions, as the foundation of science lies in the questions. A child is the first scientist, as children are the source of unending questions.

- *Student:* Who is our enemy ?
(*High school in Anand, Gujarat*)

Dr. Kalam: I would like to put this question to other students.

Snehal Takkar(Student): It is poverty.

(*Later Dr. Kalam dedicated his book *Ignited Minds* to her*)

- *Student:* Mr. President, I want to live in a peaceful and prosperous Nagaland, please tell me how to make this possible?
(*Nagaland*)

Dr. Kalam: After becoming independent, the country needed a second vision. To make progress and prosperity and penetrate regions such as the North East and Jharkand, the I.T. industry should ponder over this. Economic strength comes from competitiveness, which is driven by knowledge, pushed forward by technology and resulting in resources and investment.

- *Students:* Why can't the water of Brahmaputra, which is in flood much of the time, be diverted to states like Rajasthan and TamilNadu?
(*Tezpur University, Assam*)

Dr. Kalam: I appreciate your innovative ideas and vision 2020 demands the youth start a great mission of connecting rivers cutting across the states. The young have the most powerful minds. They can improve

Children by nature have great values.



Kalam's Call To The Nation

the co-ordination between the states and the centre to enrich the people of our country.

- *Student:* Why is there greenery in Jharkhand and why is Rajasthan a desert?

(Rama Krishna High School, Bokaro)

Dr. Kalam: Dear children there was no civilization in Rajasthan 20 years ago. It is only the man who can transform a desert into fertile land.

- *Student:* Do the terrorists about whom I heard from the talks of my parents really belong to our country?

Dr. Kalam: Yes. They are our own people, created by us, either through political and economic isolation, people sponsored by hostile nations trying to disrupt the normal life of our people through terrorism.

- *Student:* How can nuclear weapons be used for peace ?

(Delhi)

Dr. Kalam: We have taken a vow that we shall not use nuclear weapons until and unless someone else uses them to threaten the peace of our country. When two of our neighbors have got nuclear weapons, we need them for our defence .

- *Student:* Are Pakistani weapons stronger than the Indian ones?

(High school in Anand, Gujarat)

Dr. Kalam: I point out the unique characteristic of Indians. We think little of our own capabilities. India can design any type of missile and any kind of nuclear weapon. Only 4 countries are capable of doing it and India is one among them.

Children are the real treasure of the nation.



- *Student:* Can the Agni missile cross the ocean and reach America ?
(Rama Krishna High School, Bokaro)

Dr. Kalam: There is no need to send Agni to any country because no country is our enemy and America is our friend. Agni shows the world that India has all the capabilities and it symbolizes our strength.

- *Student:* Why does the Prime Minister usually visit only big cities but not our place? We also want to meet him and talk to him.
(Tezpur University, Assam)

Dr. Kalam: This urge of children to meet the country's leaders impresses me. I assure you that your dreams will come true.

- *Student:* What gave you happiness in the last forty years of your life ?
Dr. Kalam: To me, the happiest moments were those when I saw handicapped children found their difficulties eased by fitting the callipers and when Kalam-Raju coronary stent is carried by heart patients.
- *Student:* How do you feel being the President of India?
(Bharatiya Vidya Bhavan, Hyderabad)

Dr. Kalam: I feel that I am basically a good guy.

- *Student:* Why is there only one Abdul Kalam ? Can't we have more ?
(Bharatiya Vidya Bhavan, Hyderabad)

Dr. Kalam: Yes, why not? The students have only one capital to invest and that is knowledge. The more of it invested, the better would be the percentage of success.

Observation, imitation and creativity are born traits of Children



Kalam's Call To The Nation

- *Student:* Are you an atheist ?

(International school)

Dr. Kalam: I am after the truth. I do not know what I am.

- *Student:* Uncle, can I ask a question? I have an elder brother studying in the USA who always sings the song of USA. When can I sing a song of India ?

(Youth meet of India, Ahmedabad)

Dr. Kalam: Let us jointly work to make at least future generations sing a song of India.

- *Students:* Sir, what is your message to the nation ?

(Porbander)

Dr. Kalam: All our minds must be filled with thoughts of development & prosperity of the nation. Always the nation is greater than the Individual.

- *Student:* Is your experience as a scientist useful to discharge presidential duties?

Dr. Kalam: As a scientist - analysis, planning and organization - are the principles we were trained in. Whatever may be the objectives, these are the principles useful to accomplish and lead the tasks assigned.

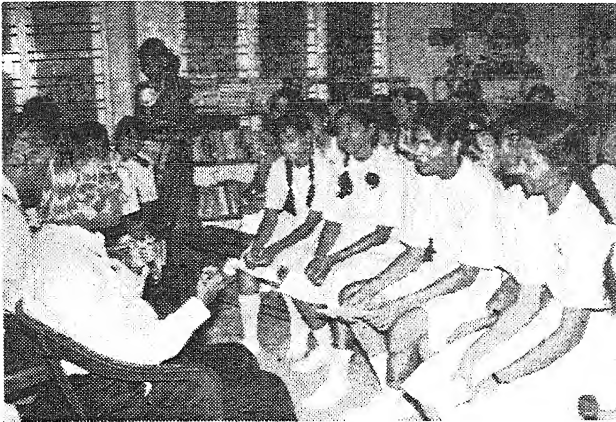
- *Dr.Kalam:* Go ahead with noble thoughts, as these will help in the development and prosperity of the nation. Idleness leads not only to the devastation of an individual but also demolishes the organization and finally the whole nation.

(Sathya Sai Higher Learning Institute, Ananthapur)

Questioning “why & how” ignites scientific temper.



Dr. ABDUL KALAM ON HIS MISSION TO MEET ONE LAKH STUDENTS



Dr. Kalam meeting students of International School, Hyderabad along with its founder Dr. Kakarla Subba Rao.



Dr. Kalam with Bharathiya Vidya Bhavan, Hyderabad students

We are children, when we are among children.

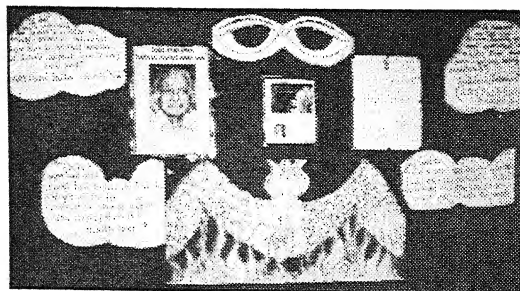
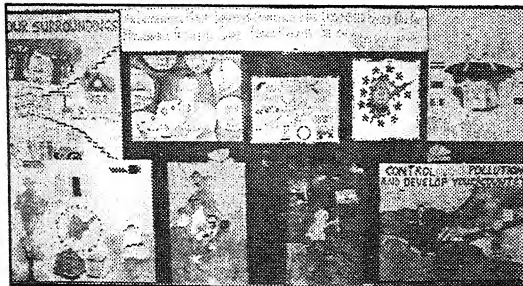


Kalam's Call To The Nation

DEVELOPED INDIA 2020 CREATIONS



Reiteration of Swarna Bharathi and Swarnandhra 2020



*Developed India 2020 creations of
Bharathiya Vidya Bhavan students*

Jai Swarna Bharathi!

Jai Swarnandhra!



Kalam's Call To The Nation

- *Dr. Kalam:* For a prosperous India, the first and foremost necessity is thinking, because thinking is the capital, without which we cannot have an industrially developed and technologically developed society. Each person should have a vision. Knowledge and vision go together and nothing can materialize without thinking. Vision can be transformed into mission and mission can be transformed into action. Vikram Sarabhai, my role model, had a vision in the sixties that India would have satellites. Now the vision has been transformed into action, as a result of which, we can launch any kind of satellite. Vision can be transformed into mission and mission can be transformed into action.
(Agartala, Rabindra Bhavan)

- *Dr. Kalam:* Dream big as aiming small is a crime. Be creative on the lines of great scientists like S.Chandrashekar, C.V.Raman and Albert Einstein. The capital of students is knowledge and I want you to acquire it in the 25,000 hrs you spend in this school.
(Bharatiya Vidya Bhavan, Hyderabad)

- *Dr. Kalam:* Who can be our role models?
Students : Our mothers and fathers.
- *Student:* You always give the message to dream. Tell me, why to dream?
(St. Mary's High School, Dundigal)

Dr. Kalam: Friends, if there are no dreams, there are no revolutionary thoughts and hence no actions will emanate.

While addressing the children on Children's Day and releasing the vision document Developed India, he remarked, "I have completed my vision of interacting with 1lakh school children across the length and breadth of the nation. Wherever I went, the voice of the youth is unique and strong in

The capital of students is knowledge.



Kalam's Call To The Nation

articulating their dreams. Everyone dreams to live in a prosperous and peaceful India. There are more than 300 million children in India on whose shoulders the future of the country rests. You can ignite the minds, light the fire, and become a burning candle to light another candle."

Dr. Kalam has certainly walked into the hearts of the young. He who has risen to the highest office of the country by dint of hard work and merit, has certainly provided an aim and direction to the children. *"Unless we creatively dream and dream big, of what use is our life?"* he asks the students. *"Dreams lead to thinking, sweat it out while thinking and it leads to progress".* *"Persevere with the effort and you will excel,"* he added. This entails thinking and hard work for it is only by doing both that one can taste success and lead India to the top of the world.

"Thinking is indeed a great asset for the young. Work hard and you will succeed."

Dr. Kalam's concern for children is revealed by the fact that he cancelled the traditional Rashtrapathi Bhavan Iftar party during the month of Ramzan and donated the money to orphanages. When he visited Tripura village, he arranged for the heart surgery of a 14-year-old boy by specialists from Hyderabad's CARE Hospital. Among the invitees on his famous rail trip from Harndut to Patna, was a 10-year-old government school girl, Sangeeta Kumari, the daughter of a watch-mender. And when he saw a newspaper photograph of schoolgirl Minnuz Fatima in tears because she had missed meeting the president and getting his autograph, he took the pains to find her address and send her his autographed card with a letter of greeting.

Thinking is a great asset for the young.



Kalam's Call To The Nation

6. VALUES IN Dr.KALAM

As Repeated Thoughts lead to Desires
Repeated Desires lead to Actions
Repeated Actions lead to Habits
Repeated Habits lead to formation of Character
Ultimately, Character Inculcates into
Human Personality as Basic Human Values
Resulting in Human Excellence.

Values are ultimate in life, but they are intrinsic and can only be assessed by the instant behaviour of a person. It is difficult to identify value level in anybody, more so in great personalities like Dr.Kalam, who is an embodiment of human values. To depict his concern for values, in his first address on the eve of Independence Day, he laid specific stress on unity, tolerance and non-violence. He reminded the nation of its eternal values taught by Gandhi, pointing out that “any act by anyone anywhere in India that runs counter to these eternal values would pose a threat to the fabric of the free Indian nation which was born and nurtured by the supreme sacrifices of the countless noble souls”. As said by some of his associates, in every interaction with him, they learn a lot of new things. So an attempt to write about values in Dr. Kalam is like finding values in God, which will be a futile exercise. Hence, here is an attempt made to knit a garland of values personified in him.

Character :

Character is the inner base on which an individual builds his personality. It speaks through every activity like thinking, talking, walking etc. It is more precious than health or wealth. “If wealth is lost nothing is lost. If health is lost something is lost. If character is lost everything is lost.” Sanskrit verses reiterate the same “ Sheelam Sarvathra Dhanam”, “Sheelam Sahaja Abharanam”.

Observation and repeated actions lead to habits.



Kalam's Call To The Nation

A beautiful connectivity was given by him between heart, character, nation and the world as follows :

Where there is righteousness in the HEART,
There is a beauty in the CHARACTER.
When there is a beauty in the character,
There is harmony in the HOME.
When there is harmony in the home,
There is an order in the NATION.
When there is an order in the nation,
There is peace in the WORLD.

Thus character is the illustrative of all values. The following values are only some sample values visible in the life of Dr. Kalam.

Truth and Honesty:

“Satyam Nasti Parodharmaha” means that there is no value greater than truth i.e. truth is the base value among all other values. Dr. Kalam inherited truthfulness, honesty and discipline from his father. He has always been truthful and honest to the core. He is known to be a man who does not take advantage of government vehicles for personal use. In fact, he used his own earnings to fill the nomination for the presidential post.

For the presidential ceremony, he invited his relatives, friends and about 100 children and paid the expenses himself. He insisted on paying for his family's train trip and accomodation in Delhi. He even insisted upon paying for the ceremonial dress. Recently, when he visited sabarmati ashram, he bought some books, and when the authorities refused to accept money, he said he would not buy them if they were given free and gave Rs. 75.

Thus truthfulness and honesty are embodied in the life of Dr. Kalam. “Truth always triumphs” - “Satyameva Jayate”.

Values are ultimate in life.



Kalam's Call To The Nation

Discipline

Discipline is the core value assessed from the external orderly or disorderly behaviour of the persons personality is the reflection of inner discipline of the body and mind. Dr. Kalam has always been a self-disciplined person in his thoughts, words and deeds i.e. *Thrikarana Suddhi*. His routine, whether it be walking, working, eating or reading, is conducted with self-discipline. For that matter, even his friends and relatives have to take an appointment to meet him. No one is allowed into his office without prior appointment. Time management is another important feature of Dr. Kalam.

Optimism

Dr. Kalam is an embodiment of optimism. The following incident reveals his level of optimism.

In a meeting at Care Hospital, Hyderabad, Dr. Kalam discussed with a Neurologist and senior doctors if a chip could be designed to compensate the lost or missing faculties of mentally retarded children. The doctors expressed apprehension and doubt. Then Dr. Kalam revealed his optimism, by putting their apprehension at rest. He stated that he was interested in a single way in which it can be done, but not in hundred ways by which it cannot be done.

High Thinking

On the eve of launching the Agni missile at RCI, the then defence minister, impressed with Dr. Kalam's excellent work, wanted to know what he could give him on this success. Dr. Kalam immediately replied that he wanted 100,000 saplings to transform that barren land into greenery. Local beneficiaries remember him even today.

Discipline your thoughts, words and deeds.



Kalam's Call To The Nation

Dr. Kalam's elder brother Mustafa ran a provision store on the railway station road. Whenever Dr. Kalam returned home from Schwartz High School, his brother would ask him to sit in the shop. Dr. Kalam sold various items like oil, onions, rice etc. Noticing that cigarette and beedi were the fastest moving items, he wondered what made people burn their hard earned money.

Respect

“Vidya Dadaati Vinayam - Vinayam Dadaati Patrata” i.e. education gives respect and respect gains value for the person. Respect is an emotional part of the personality. Respect cools and harmonizes interpersonal relationships. Dr. Kalam scrupulously followed this value in all relationships.

- i. **To Parents :** Dr. Kalam was respectful to his parents right from his childhood. He adored his mother's dishes and company . Similarly even now he recollects his father's advice and follows it strictly.
- ii. **To Teachers :** Dr.Kalam remembers his teachers right from the primary level to the college level. His respect for his teachers is so high that he attributes all his success to them.
- iii. **To Elders :** Dr.Kalam is known for respecting his elders and colleagues who are full of praise for him and his works.
- iv. **To Subordinates and the Younger :** The character of respecting others in Dr.Kalam is so high that he never looks down upon his subordinates. He freely mingles with them and talks to them. He even takes suggestions from them and encourages them in their work.

Courage

“Dhairye Sahase Lakshmi” Only by means of courage, you can attain success. Courage thinks only of the success and nothing else in between. Courage grows with the life of the person. The indomitable courage of Dr. Kalam made him successful in all his tasks. Many tasks he set were much

Respect to parents, teachers and elders is respect to God.



Kalam's Call To The Nation

beyond the imagination of others. He started from the scratch. It is his courage that drove him towards success.

Self-Confidence

Self-confidence is knowing one's way around oneself. Somewhere inside, from the stillness, you can find something where confidence is deep, there is the foundation of real strength. Dr. Kalam ignited this inner strength in him. There is nothing impossible for him. That is because of his self-confidence. One of the secrets of success of Dr. Kalam can be attributed to this great virtue of self confidence.

Hardwork

Dr. Kalam is a workaholic. Right from childhood, whether it is studies or any work, hard work is his nature. He is habituated to work for 18 hours a day. Even as President of India at the age of 73, he is working with the same zeal. He has transformed the sleepy pace of Rashtrapathi Bhavan with a couple of engagements a day into an 18 hour working day.

Power of Observation

Dr.Kalam is a keen observer. As a child, he used to watch cranes and seagulls soar in the sky. That was when he conceived the dream to fly into the skies. This dream became stronger while watching aircraft displays at MIT.

As a newspaper boy, before distributing the papers he would study the pictures of the Second World War. He understood then, the importance of a nation's military strength. His understanding evolved into a conviction to make India strong.

He observed Dr.Sarabhai, a man from a rich business family, who never allowed his peon to carry his briefcase. From him he learnt the

Observation leads to imitations.



Kalam's Call To The Nation

importance of self-help. He was quick to detect greatness even in his subordinates and it helped him to be a fair-minded leader.

Obedience

Dr.Kalam always obeyed his parents, teachers and elders. Even now, his elder brother, APJ.Mohammed Muttu Meer Labbai Marakkar vouches his obedience, in spite of his high position.

While he was the Director of DRDL, he took music lessons from a school teacher named Smt.Kalyani, Hyderabad. She says, "I am privileged to have an obedient student like him, who used to stand along with school children with folded hands in spite of the being Director of DRDL."

Determination

Whatever task he has taken up, he has finished it with wonderful results in spite of a number of hurdles. This is due to his determined efforts.

Uncompromising Personality

Dr. Kalam is always uncompromising as far as his mission and principles are concerned. He is always very straightforward when he has to put up his requirements and goals.

Dynamism

Because of his creative thinking, Dr. Kalam is ever dynamic. Whatever may be his assignment, he has the power to do it dynamically. Even after planning, at the time of execution, if the scenario changes, his creative ideas will add new dimensions to it. Now, as President of India he is bringing about a lot of dynamic changes in all spheres.

Creative thinking ignites dynamism.



Kalam's Call To The Nation

Scientist – Inspirer

Dr. Kalam is a great scientist who has earned membership in the clubs of highly developed nations in the world. As a scientist he had a strong ambition to see India as a technologically self-reliant nation. The major part of his professional life was spent in empowering Indian technology and reusing it for eradicating the problems of the poor and improving the prosperity of the nation. His success lies in his ability to inspire his team mates for accomplishing the tasks. He continues to inspire children and youth throughout the nation for a “Developed India”.

Even now, as the President of India, he inspires the children throughout the nation to develop themselves individually and here by develop the nation. He set up a trust, Developed India Foundation, donating his own money from various awards he has won to provide career-oriented training to 1,000 graduate students from villages. Which ever state he visits, he meets the state law makers, secretaries, entrepreneurs, teachers and appeals them to contribute their mite for the developed India-2020.

Gratitude

Great personalities never forget their debt of gratitude to the people who helped them in moulding their character. Dr. Abdul Kalam attributes his success to his parents, teachers and elders.

He believes that he has inherited honesty and discipline from his father and faith in goodness and kindness from his mother, thus attributing his moral base to his parents.

He helped his niece as a token of gratitude to his sister Zohara, who mortgaged her bangles and chain to help Dr. Kalam to study at MIT.

He gives credit to his friends Jallaluddin and Samsuddin for having encouraged him to come up in life.

Dr. Kalam attributes his success to his parents and teachers.



Kalam's Call To The Nation

Similarly, Dr. Kalam attributes his success to his teachers, right from his primary school teacher, Sivasubramanyam Iyer (who taught many general things apart from studies) to his teachers at MIT, and finally his team leaders Vikram Sarabhai, Dhawan and many others.

Work Ethic

Dr. Kalam has a strong working mind/sense that guides him in any professional task that he undertakes.

In the morning walk, he plans the routine of the day to save time.

Dr. Kalam also has the habit of making notes and giving handwritten notes to his colleagues and subordinates.

Dr. Kalam is a workaholic; he works for 18-20 hours a day. He attributes his success to his habit of hard work. He often for gets even his food and sleep when he is engrossed in work.

The spirit of work is so high that he forgets his stature and position during work.

Quest for Learning

From childhood, he has developed the habit of continuous learning. He would observe people and learn good things from them.

He has no hesitation to learning even from younger people and subordinates. At the age of 50 years when he was director of DRDL Hyderabad he learnt music from a school teacher, Kalyani. Even after becoming President of India, he has expressed his desire to continue his research.

Brahma Charyam

Dr. Kalam, greatly influenced by the ancient Indian cultural heritage,

Working sense guides any task.



Dr. Kalam, a lover of Indian culture and music



Kalam's Call To The Nation

believes in the concept that health is the media to achieve anything and everything. *"Sharira madyam khalu dharma sadhanam"*. i.e. body is the medium to do anything and every thing.

To attain the highest spiritual enlightenment, he has chosen the toughest path of remaining a brahmachari in his life.

Visionary

As a child, Dr. Kalam dreamt of flying in aeroplanes. As a scientist, Dr. Kalam had the vision to see India technologically developed. Now it is his vision and mission to use technology to raise the standard of living of 300 million Indians living below poverty line.

Patriotism

Right from childhood he was a patriot. He used swadeshi-pencils and wore dress made of khadi. He dreamt and did his best to make Indian defence strong. Because of his great patriotic character, almost all political parties unanimously selected him as the Presidential candidate.

Simplicity

Dr. Kalam, as a follower of Gandhiji, was greatly influenced by the statement "simple living and high thinking" and practised the same in life.

Right from childhood he used to dress up in a simple manner. After the success of SLV-3, when he attended a high level parliamentary meeting with the then Prime Minister Shrimati Indira Gandhi, he wore a casual dress and slippers.

He wore his usual blue shirt and black trousers for India's 53th Independence Day celebrations although the protocol demanded a formal attire.

Dr. Kalam adopted simple living, high thinking from Gandhiji.



Kalam's Call To The Nation

Despite his high position, he never stays in bungalows or quarters; instead, he prefers to stay in mess hostel rooms or single rooms. He does not even own a house to live in. He is also impervious to ceremonial firms while speaking to school teachers in Orissa, he asked them not to use cut while addressing him "Your Excellency" and proceed with their questions. Thus the value of simplicity is concretized in the life of Dr. Kalam at every stage.

House Keeping :

Though Dr. Kalam has lived all his life as a bachelor, he is a house keeper like any other lady. Rashtrapati Bhavan was completely repaired after his arraival. The old paintings were re-painted. Dr. Kalam has taken over some area of the Mughal garden for his experiments in individual plants, supervising not only their planting and care but lending a hand in its harvesting too.



Dr. Kalam planting trees and implanting values in children.

First be, then do, and tell.



Kalam's Call To The Nation

7. HOW Dr. KALAM'S PERSONALITY WAS MOULDED?

In human personality, thoughts that are repeated translate themselves into words and actions. When there is a consistent repetition of actions, they translate themselves into habits and thereby into character. Inculcation of good character means personification of basic human values. The refinement of personality with these human values results in human excellence. Development of these values is a combined result of the effort of parents, social conditions and individual intellectual development. It is the cumulative effort of family members, friends, teachers, peer group and the society around that mould the personality of children. Here, we recount the events to illustrate how people around Dr. Kalam moulded his personality. This is a classic example for all children, youth, parents and teachers to emulate the great personality of Dr. Kalam.

Influence of Kalam's Father

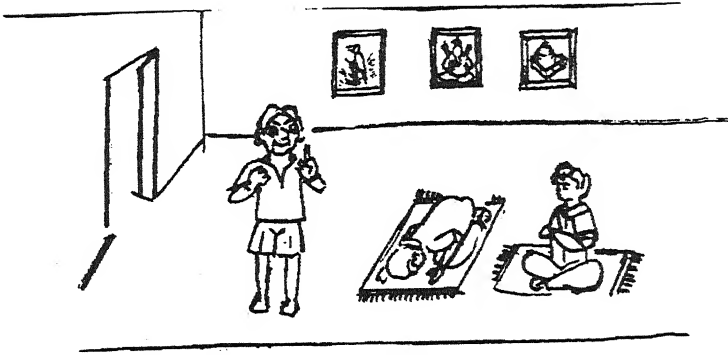
Kalam's father, Jainulabdin was neither well educated nor wealthy, but was wise and austere. Though he was a devout Muslim, he possessed great religious tolerance. He rented boats to take pilgrims and this was the only source of income for their family. Kalam would accompany his father to the mosque and would offer prayers regularly. His father would tell him about the importance of prayer. People of all religions used to wait outside the mosque with vessels of water, in which he would dip his fingers, chanting verses. This water would cure the sick. Pakshi Lakshmana Sastri, the high priest of Rameshwaram Temple and his father's close friend often used to discuss spiritual matters.

His father always encouraged him to excel in what and he had been a source of inspiration to him. His father once told Dr. Kalam, "Your body may house this place but your soul is the house of tomorrow, which we can

Parents interactions make permanent impressions.



CHILDHOOD OBSERVATIONS LEADING TO HABITS



Observation of Namaaz and reciting the Gita



Formation of eating habit with parents

Observation and imitation leads to habits



Kalam's Call To The Nation

never visit even in our dreams. God bless you, my son." Thus he sowed the seeds of spirituality and inspired him to set a goal for higher life.

Influence of Kalam's Mother

Kalam's mother was a generous lady and would feed many relatives and friends. Kalam loved to eat sweets prepared by his mother. He used to eat on banana leaf with his mother in the kitchen. He inherited his mother's faith in goodness and kindness. His love for his mother is very deep and we can peep into his heart to understand this reverence through his poem on his mother.

Thus his mother and father inculcated spirituality, the essence of all religions.

Dr. Kalam was greatly benefitted from the informal talks that he used to have with his father and a family friend Pakshi Lakshmana Sastry. Sastry and Kalam's father, each in their traditional attire, used to discuss spiritual matters and thus laid a strong foundation for Kalam's spiritual maturity.

My Mother

*Sea waves, golden sand, pilgrims' faith,
Rameshwaram Mosque street, all merge into one,
My Mother!*

*You come to me like heaven's caring arms.
I remember the war days when life was challenge and toil—
Miles to walk, hours before sunrise,
Walking to take lessons from the saintly teacher near the temple.
Again miles to the Arab teaching school,
Climb sandy hills to Railway Station Road.
Collect, distribute newspapers to temple city citizens,*

Matru Devobhava - Mother is a living God.



Kalam's Call To The Nation

*Few hours after sunrise, going to school.
Evening, business time before study at night.
All this pain of young boy,
My Mother you transformed into pious strength
With kneeling and bowing five times
For the Grace of the Almighty only, My Mother.
Your strong piety is your children's strength,
You always gave, and gave with faith in Him.
I still remember the day when I was ten,
Sleeping on your lap to the envy of my elder brothers and sisters
It was full moon light, my world tears falling on my knee
You knew the pain of your child, My Mother.
Your caring hands, tenderly removing the pain
Your love, your care, your faith gave me strength
To face the world without fear and with His strength.
We will meet again on the great Judgement Day, My Mother!*

Influence of Relatives and Friends

Jallaluddin

Jallaluddin, who was 15 years older than Kalam helped Kalam's father in boat building. He was a close friend of Kalam and greatly influenced him. Though his schooling was limited, he encouraged Kalam to excel in studies and equally enjoyed his success. He was the only person in Rameshwaram who knew a bit of English and could read and write in English. He nicknamed Kalam as "Azad", inspiring him to emulate the great freedom fighter, Abdul Kalam Azad. He was one of the few important persons who ignited the scientific temper in Dr.Kalam.

Parents characters carry on to children.



Kalam's Call To The Nation

Samsuddin

Samsuddin, Dr.Kalam's cousin and a good friend, was the only newspaper distributor of Rameshwaram. The newspaper bundles were hurriedly dropped from the train at the Rameshwaram railway station. Samsuddin engaged Kalam in collecting the papers and distributing them. Kalam feels that no matter how much he later earned, he could never forget his first salary.

Influence of Teachers

Sivasubramania Iyer: Instilling Self-esteem

Sivasubramania Iyer was Kalam's science teacher who was a Brahmin. He had a conservative wife. He once invited Kalam for a meal. His wife refused to serve him, as he was a Muslim. So he himself served Kalam. Next week, when Kalam again visited his teacher's house, she had changed so much that she herself served him. This incident taught him the value of oneness that his teacher made him learn through practice. He also learnt that a person should first "be", then "do" and "tell" others.

Ramanathasastry, son of Lakshmanasastry and a close friend of Kalam, used to sit beside Kalam in the school. Kalam was in the 7th standard when a new teacher came to his school. He could not bear the fact that a Muslim boy was sitting beside a Brahmin boy who wore a Janaau (sacred thread).

He then asked Kalam to sit at the back. This incident remained etched in the mind of Kalam. Both of them informed about the same to their parents. Lakshmana Sastry reprimanded the teacher in front of the boys for practising religious intolerance. He finally reformed this young teacher.

Friends' influence contribute 25% to the personality.



Kalam's Call To The Nation

8. HOW HINDUS / MUSLIMS OUGHT TO BE INDIANS FIRST ?

Dr. Kalam is a shining example of how a true Indian ought to be dedicated to his country and feel proud of the country. On 15th August 1947, when freedom was declared, two photographs were printed in the newspapers - one -Jawaharlal Nehru, hoisting the national flag and another - Gandhiji walking barefoot to Navakhali. Gandhiji's action laid a permanent imprint on the young mind of Dr.Kalam. His patriotic fervour is reflected even from his childhood.

Dr.Kalam has full faith in India's composite and diversified culture and heritage. To him, all men are equal and religion is an intense individual quest. For great men, religion is a way of making friends, small people make it a weapon to fight.

"I never thought as a Muslim religious person; I am hundred percent an Indian" said Dr.Kalam in an interview with *India Today*. He also says that secularism is the true base for India and an Indian must always stick to it.

Further, he states, "I had the fortune of learning many of our religions from my childhood. I realized that the central theme of any religion is spiritual well-being. Indeed, it should be understood that the foundation of secularism in India should be derived from spirituality".

His in-depth knowledge and passion for ancient Indian scriptures made him name the missiles after ancient Indian weapons - Trishul, Nag, Prithvi, Akash, Agni etc. He is now working on a project to convert all scriptures on palm leaves to digital data.

On a particular event, when Smt. Indira Gandhi introduced Dr.Abdul Kalam to the then opposition leader Sri.A.B.Vajpayee, he rose and hugged

First I am 100% an Indian



Kalam's Call To The Nation

him for his excellent work. Sarcastically, Smt. Indira Gandhi commented that he was an untouchable, being a Muslim. Sri Vajpayee retorted saying that "above all, he is an Indian."

Dr. Kalam appeals to the Indians to rise beyond the confines of religion and aspire for a greater spirituality.

As a true son of India, he has now dedicated himself to the service of the country and its people. All his inventions are meant for the upliftment of Indians, especially the rural masses. His austerity, hard work and selflessness, despite his high position, reveal his respect for the nation. He declares, "*I will keep the lamp of knowledge burning to achieve Developed India - Vision 2020*"

In his recent speeches, he made it crystal clear that "*our greatest strength is in pluralist tradition and civilisation.*" He also said that it is our responsibility to give our children a safe and secular India. This statement not only reflects his warm personality but also speaks volumes of his love for mother India. Undoubtedly, this world of terrorism and corruption needs people like Dr. Kalam. All Indian muslims should follow his footsteps. Islam should be proud of having a gem like Dr. Kalam. Dr. Kalam called for a second vision to integrate people from all walks of life towards a common purpose. This vision of the nation will also remove the conflicts arising out of difference in small thinking. The vision can be achieved only with "*Unity of minds of all our people.*"

When asked for what he would pray on Idd, he said that, apart from praying for the health and happiness of his teachers and relatives, he would offer this prayer:

"O Almighty, create thoughts and actions in the minds of people of my nation so that they live united; Help all religious leaders of my country; give strength to the people to combat the forces of division; Embed the thought:

Collective pride, unity and ability makes a strong nation.



Nation is bigger than the individual in the minds of the leaders and people; God, bless my people to work and transform the country into a prosperous nation soon." This prayer bears testimony to Dr.Kalam's genuine patriotism and adoration for his mother land.

Impact of GITA

Kalam's father's friend, Pakshi Lakshmana Sastry used to recite the Gita. Dr. Kalam's curiosity in learning slokas and grasping their essence at a tender age helped him in his later life. He often recalled relevant slokas and their essence at the time of disappointments and adversities and could find the solutions in the Gita. He recites the Gita as often as the Quran.



In DRDL, while creating a monogram, the team required a quote. He then immediately quoted from the Gita: "Vajranam ayudham" and surprised everybody with his knowledge of the Gita inspite of being a Muslim. Often, his critics comment that he is more a Hindu than a Muslim because he quotes verses from the Gita extensively.

Dr. Kalam, in his first press conference soon after confirmation of winning wide support for his candidature as President, replied to a reporter's queries by quoting the essence of the Gita. The summary goes as: "Whatever happened is for our good, whatever is happening is also for our good and whatever is going to happen will also be for our good." If anyone says that missiles are enemies of peace, "Uthista kaunteya yudhaya kritanishchayaha" quotes Dr.Kalam, as Lord Krishna prepared Arjuna for the war.



Kalam's Call To The Nation

Spirituality Thru' Science

Dr. Kalam has reached the greatest heights of science through the depth of spirituality. For him, science has been a path to attain self-ennoblement and self-realisation. As an ardent follower of the spiritual principles, he always correlated his work with spirituality. His austere life, strict principles of Brahmacharya and above all, service-oriented efforts, disclose his divinity. In his childhood, when their boats were carried away by a cyclone, his parents uttered "Inshah Allah", which means "God willing" and accepted it with no reaction. He surrendered himself to the wish of God throughout his life. His father lived in the experience of the infinite bliss and did not care for materialistic pleasures. He always discussed spiritual matters with Kalam. Kalam emulated his father and practised the basic truths taught by him throughout his life. His childhood friend, Jallaluddin, who later became his brother-in-law, taught him how to maintain working partnership with God. He lived with the realization of the fact that the Omnipresent is within him and is guiding him in the form of his conscience. He worked hard in the direction of his goals but owes all his success and failures to God and believed that his faith in Him would lead him to his predetermined destiny, which says that God accomplished His tasks through Kalam. Dr. Kalam attributes all his success to his parents, teachers and colleagues. He preaches the philosophy that respecting teachers and elders is equivalent to praising God. In other words, these living people are living Gods: "**Matru Devo Bhava**", - Mother is a living God "**Pitru Devo Bhava**" - Father is a living God "**Acharya Devo Bhava**" - Teacher is a living God, "**Athidi Devo Bhava**" - Guests are living God. He believes strongly that spirituality is beyond religion and the prayers offered at the temple as well as mosque, both reach the same destination. He also does pradakshinas around the temples and often visits the places of saints and swamijis. In one of his speeches he said: "*When we remove "I and me" from our minds, we will eliminate ego; If hatred goes out of our mind, violence will not spring from us and then peace will blossom.*"

There exists a divine power that lifts one up.



9. Dr. KALAM SPROUTING LEADERSHIP

Dr. Kalam evolved as a great leader from the stature of a paperboy to the President of India. His leadership evolution will be a practical lesson to all prospective leaders. He hailed from a middle class family and knew the value of money. At the age of seven during the Second World War, having seen the sudden demand for tamarind seeds, he collected and sold them to the provisional store and earned an anna a day. He used to study well and during his free time, he would help his brothers in running a provision store. He gained commercial experience by noticing the fast moving items and the slow moving items and their impact on the life of the customers. In this way he never lost any opportunity to build up the leadership qualities from an early age.

Typically, like any other youth, after getting B.Sc., degree, he wondered what to do next. His childhood dream of flying in the sky led him to opt for Aeronautical Engineering at the Madras Institute of Technology (MIT). As he was unable to afford the high fee for such courses, his sister Zohra mortgaged her ornaments to help him out. Dr. Kalam well understood these difficulties and worked hard to lay a strong foundation for his career.

Dr. Kalam as a great leader

In 1958, Dr. Kalam started his career as a senior scientific assistant at Defence Research and Development Organization (DRDO). Here he was the leader of a team formed to design and develop the first indigenous prototype hovercraft called Nandi. Identifying Dr. Kalam's talent, Indian Committee for Space Research (INCOSPAR) appointed him as a rocket engineer.

Between 1963-82, he served the Indian Space Research Organization (ISRO) in various capacities. At Thumba, a place near Trivandrum, he worked

Success can only come to you by courageous leadership.



Kalam's Call To The Nation

in the team for Satellite Launch Vehicle, and became the Director of SLV project. As project Director, he took up the responsibility of design, developing, flight testing of SLV-3 project but did not succeed in the first attempt and Dr. Kalam took the responsibility for this failure. In 1980, the same project achieved a success and as a result, the "Rohini" satellite was launched. Dr. Kalam did not take the credit for its success but attributed it to the team members.

In 1982, as a Director of DRDO, Kalam was given the responsibility of Integrated Guided Missile Development Programme (IGMDP). This programme had 5 projects, which not only fulfilled the military requirements, but also developed the technology to bring back the missiles on to the earth. Dr. Kalam had to select 5 directors; one for each project and a wrong choice would affect the whole programme. He used to consult many scientists, professionals and engineers to know their working styles before he took any decision. On successful completion of 5 major projects, India got her place on the map of missile technology.

They are :

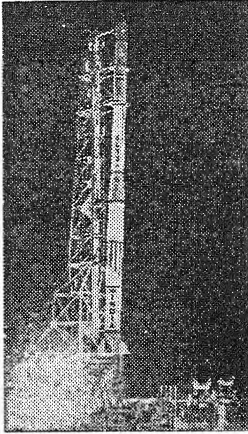
1. *NAG* : The missile, which can destroy war-tanks.
2. *PRITHVI* : A surface-to-surface battlefield missile.
3. *AKASH* : A medium range swift surface-to-air missile.
4. *TRISHUL* : A quick reaction, shorter range surface-to-air missile.
5. *AGNI* : An intermediate range ballistic missile.

Dr. Kalam, as a prospective leader, adopted various methods to derive the maximum skills from his team members. He often consulted them and spoke about the importance of each member and reminded them of the objectives of the project they have set to accomplish. He never hesitated to take the advice of his subordinates and junior scientists and always encouraged them.

Leader has to grow with opportunities.



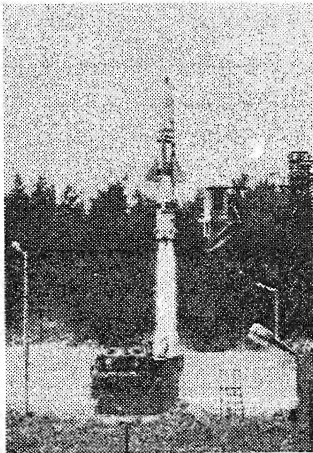
Dr. KALAM'S BRAIN CHILDREN



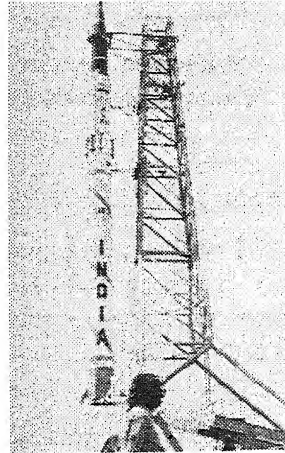
SLV-3



Thumba research centre



PRITHVI



AGNI

Dr.Kalam's contribution to take India to the fifth position in satellite technology.



Kalam's Call To The Nation

The experience he gained from the Satellite Launch Vehicle (SLV-3) project helped him in recognizing the advantages of sharing the facilities with experts working in public and private organizations. His duty was to encourage the shareholders of 20 organizations and to check their way of working. These 20 organizations not only included large-scale public and private sectors, but also small scale specialized organizations. All the missile programmes under the leadership of Kalam were completed in the expected time. This victory helped India to attain membership in various clubs meant for developed countries only.

Dr.Kalam was responsible for the successful completion of work in 1988 at Research Centre Imarat, at about 8 kilometers away from DRDL at Hyderabad.

As the head of DRDL in Delhi, he accomplished some important projects like Arjun MTB and Light Combat Air Craft (LCA). When he was questioned whether India needs missiles, war-tanks and warplanes, he replied that strength respects strength.

His expertise and concern for the country raised him to the level of Scientific Advisor to the Government of India. As the head of various research centres, he envisaged, Avalanche control techniques in Kashmir, KITS to separate salt from water in the Thar desert, modern war-ships, world level sonar-submarine finder, infra-red night vision goggles for Indian soldiers etc.

His personality and his mode of working inspired others to work with interest and curiosity. He would always discuss with other scientists and his subordinates, the future plans and his dreams. According to Dr. Kalam, if scientists are given more freedom and sufficient funds in the production and sale of satellites, then India will be recognized internationally.

Little did he know at that time that his scientific knowledge-specialization would lead the nation. His knowledge coupled with personal character and

A prospective leader derives maximum from his team members.



Kalam's Call To The Nation

value system has contributed to the emergence of a new national leader worthy of the highest office, that of the president. Kalam, a great scientist, an ardent patriot and a visionary believes that India should better its economy through science and technology. He could reach great heights only due to his high aims, commitment and untiring efforts. His subordinates and juniors were enthralled by his sincerity and always desired to work with him.

How should our aspirations and goals be?

Dr. Kalam would like to tell the youth, "*Low aim is a crime.*"

In the era of knowledge, successful people will always take untravelled roads rather than the beaten path. You need three qualities: noble leadership, indomitable spirit and a universal mind to complete the journey of transforming India into a developed country.

His Directions for leadership

- Farsightedness ignites young minds. This is a powerful resource on earth. This force lights the lamp of technological knowledge for achieving goals and developing the nation.
- We have abundant natural and human resources. What we need is young dynamic leaders.
- In the next 20 years India needs a technological society, dynamic leaders, who can attract people like magnets to build powerful teams. These dynamic leaders should not hesitate to take risks and in turn to inspire people in failures.
- Dynamic leadership, ideal workmanship and collective team spirit is the need of the hour.
- This change should enkindle leadership to build a prosperous and powerful nation.

Strength respects strength.

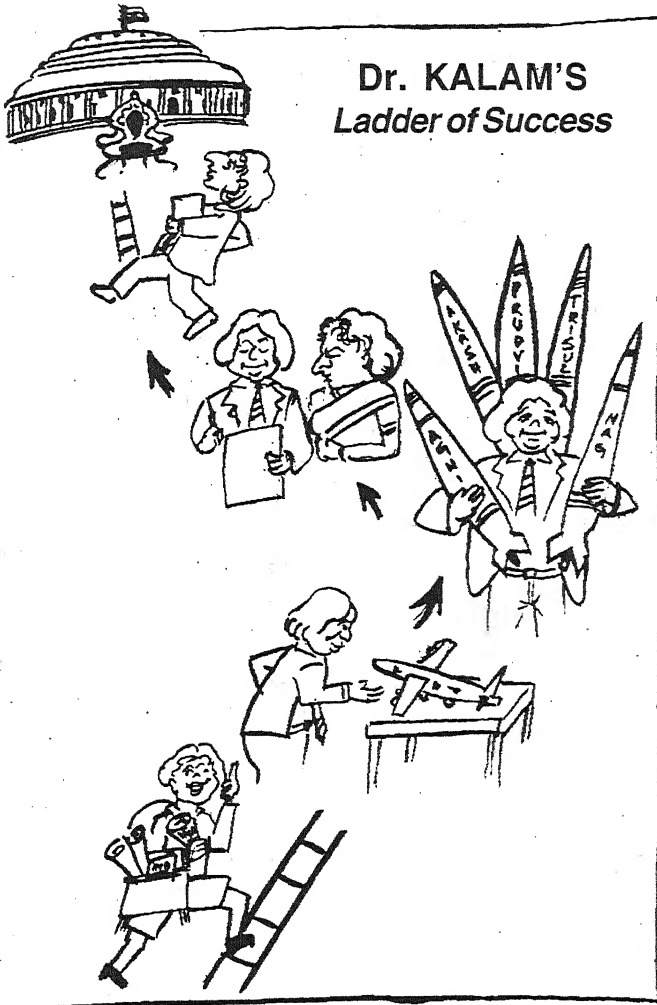


Kalam's Call To The Nation

- ☛ Change is challenge.
- ☛ Change is development.

- Role of the leader should change multidimensionally according to the time and situation. A captain demanding self-respect should grow to a coach, coach to a manager. Manager to an inspiring teacher, inspiring teacher to a director and then to a representative, who guards the respect of the nation.
- After becoming President, Dr. APJ Abdul Kalam declared that he has assigned a new type of mission in leadership, which is something we are trained for even if the mission is different.
- A leader needs a systematic approach for any type of task with careful analysis, design and integration that is relevant. Also we are not confined to conducting scientific research; we look at the overall development of the nation.
- The young leaders can transform India into a developed nation, embedded with a knowledge -based society, in 20 years from now.
- Politics means leadership in many fields like social, technical and strategic sectors. Politics makes leaders design policies to take the nation to the higher levels.
- National, financial, social, & strategic leadership is carved out in politics.
- India is a powerful nation not because of the weaponry but because of matured political and economical development. Political leaders should work with a zeal that the "nation is bigger than the individual".

Low aim is a crime.



Creative leaders work with a mission to achieve vision.



10. FROM FAILURES TO SUCCESS

A person can't just build on successes but also on failures. Dr. Kalam is often referred to as a very successful man with tremendous will power and determined hard work. But he too had to taste the bitterness of failure. In fact, a person fails only when he makes an attempt. An attempt adds experience and ignites new strength and finally leads him on to the road of success. The process is similar in the case of any successful person.

Dr. Kalam's fortune has raised him from a paperboy to the President of India with several milestones in between. Small attempts to big successes mixed with failures presented an opportunity to Dr. Kalam for self-checking and correction. The adversities in his life provided an opportunity for introspection. His character of single-minded devotion to the task, added to his missionary zeal. Failures in his tasks did neither disappoint him nor shake his confidence in hard work. Some instances of his life when Dr. Kalam succeeded through failures are given below as an eye opener for every progressive youth.

Ramakrishna Iyer: a strict disciplinarian

Once when Dr. Kalam was in the Primary School, his Mathematics teacher, Rama Krishna Iyer, a strict disciplinarian, found him loitering in the corridors and punished him in front of his Class. Kalam took the insult positively as a challenge and scored full marks in the next Mathematics exam. Iyer narrated the whole incident in the Morning Assembly and assured that Kalam would keep up the name of his parents and teachers and would bring glory to the country. Dr. Kalam lived upto his teacher's expectations and fulfilled his desire in his later life.

A big success comes in steps of small successes and failures.



Swami Shivananda: Enlightening the soul

After his engineering at MIT (Madras Institute of Technology), he applied for a job in the Indian Air Force as a pilot. He failed at the interview. Disappointed by this failure he went to Swami Shivananda at Rishikesh. Swamiji did not react to his Muslim identity. Instead, he asked Kalam the reason for his sorrow. Dr.Kalam told him about his failure to join the Air Force. Swamiji enlightened him by saying, "Your destiny is predetermined and is not revealed now. It is certainly not that of an Air Force Pilot. Become one with yourself and search for the purpose of your life and surrender yourself to God's wish."

India's first indigenous hovercraft

In 1958, he started his career as a Senior Scientific Assistant at Defence Research and Development Organization (DRDO). Here, he was the leader of a team formed to design and develop the first indigenous prototype hovercraft. None of his team members including him had experience in building a machine. They read as much literature as they could, related to hovercrafts. They tried to consult people specialized in this area, but all in vain. Dr.Kalam and other team members had to face criticism and were always discouraged by people around them. But their confidence and enthusiasm was high and finally they succeeded in the mission and named the hovercraft "Nandi".

India's First Satellite Vehicle :

Dr. Kalam was entrusted with the task of completing the SLV-3 project. He worked very hard with single-minded devotion. During his SLV mission, there were days when he looked up to find the laboratory empty and realized that the lunch and dinner hours slipped by without his realisation that he was hungry.

Do your best and leave the rest to God.



Kalam's Call To The Nation

After the completion of the work, the first experimental trial of SLV-3 was conducted on 10th August 1979. To his disappointment, the flight collapsed mid-way and all their efforts turned futile. But, Kalam accepted the challenge ahead and revived his spirits to carry on with the project. It was on 17 July 1980, India's first Satellite launch Vehicle, SLV-3 lifted off successfully. Dr Kalam was carried on the shoulders of his happy colleagues and there were cries of joy everywhere.

Thus Dr Kalam converted his failure into success by his positive attitude towards failures, which paved the path to success. This can be more clearly understood through his message, which he conveyed during one of his addresses to the youth of India. He addressed a gathering of fresh graduates and conveyed his message-“Why are you afraid of failures and stop learning from them? If you are afraid, you cannot be a leader in the competitive world. In this era of knowledge, successful people always take untravelled roads rather than the beaten paths. Take the untravelled road. Only then your life will be on the right path.

The difference between the energetic person and confused person is the difference in the way their minds handle their situations.”

There are success-stories among failures.

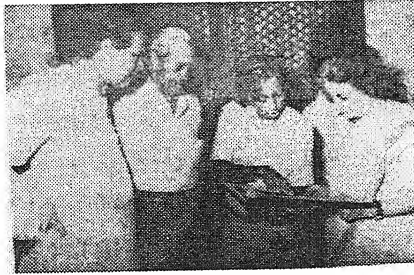


Kalam's Call To The Nation

Dr. KALAM'S ACHIEVEMENTS



Dr. Kalam explaining missile development to Vikram Sarabhai



Dr. Kalam presenting missile projects to Smt. Indira Gandhi



Dr. Kalam receiving Bharat Ratna Award from
Rashtrapathi K.R. Narayanan in 1998

Bharat's real ratnam Bharat Ratna Dr. A.P.J. Abdul Kalam



11. Dr.KALAM'S IGNITING QUOTATIONS

1. Aiming low is a crime.
2. Aim high in your field, reach the zenith.
3. The ignited soul is the most powerful resource on the earth, above the earth and under the earth.
4. Failures are stepping stones for success.
5. If you are afraid of failures and learning from them, you cannot be a leader in the competitive world.
6. Successful people always take untravelled roads rather than the beaten path. Take the untravelled road; only then will your life be on the right path.
7. Change is progress, and hence change is the challenge.
Take up the challenge of transforming Indians into a wealthy, happy and empowered people.
8. Work to fulfil your dreams with missionary zeal.
9. Unless we creatively dream and dream big, of what use is our life.
10. Students have only one capital to invest and that is knowledge. The more of it invested, the better would be the percentage of success.
11. Dreams lead to thinking, sweat it out while thinking and it leads to progress. Pursue with the efforts and you will excel.
12. Thinking is indeed a great asset for the young.
13. Education is important; the resultant output is more important.
14. Problems are a part of life. Suffering is the essence of success.
15. The nation requires role models in leadership who can inspire youngsters.

Failures are stepping stones for success.



There is no dearth of resources and talent in this country but what we need is more creativity.

16. Get into action and try to excel.
17. Difficulties are necessary to enjoy success.
18. Mistakes enable development, use mistakes for modification, upgradation and betterment.
19. Find your own ways and means for success. Do not brood over external conditions.
20. Do everything wholeheartedly, by expressing your spirit.
21. You can succeed only by devoting yourself courageously to the task in front of you. It is the courage, which is the driving force to take one anywhere and everywhere.
22. Change the mindset, have willingness to take pragmatic risks. Success will follow.
23. Believe in your goals, what we dream will come true
24. Without dreams there are no revolutionary thoughts, without thoughts there is no emanation of actions.
25. A mission is bigger than an organization, which in turns is bigger than an individual. Mind provides the purpose and mission needs effort.
26. Retain your birth right of being a person. Only then, you can win the game of life.
27. Commitment to realize a dream is the greatest power in heaven or on earth.
28. Indigenous technological excellence combined with self-reliance is the only key for India to attain economic strength.
29. Always assess your worth only by the value of your contribution.

Get into action and excel.



Kalam's Call To The Nation

Vision

32. It shall be the duty of every citizen of India to develop the scientific temper, humanism, patriotism and the spirit of inquiry.
33. The first vision for India is independence, which we achieved. We need a second vision now to make India economically strong.
34. It is essential to keep the lamp of knowledge burning to achieve the vision – 2020 - Developed India.
35. Instead of importing goods from foreign country, it is good to import technology to develop these.
36. Nation is bigger than the individual.
37. The vision of a developed India can be realized only if we recognize that wealth generation and wealth protection are two sides of the same coin.
38. Only a united vision launched with renewed vigour will bring the young force into action.
39. Secularism is a base for India and totally follow it.

Spiritual

40. For great men, religion is a way of making friends; small people make religion a fighting tool.
41. Love of religion should ultimately lead to spiritual living.
42. Spiritual wisdom is our strength.
43. There is no barrier between you and the world. Since you are part and parcel of it, it is for you to put yourself in tune with the universe.

Only a vision ignites a billion souls.



44. Abundance and spirituality are not mutually exclusive and there is nothing wrong in desiring material wealth. Abundance brings security and confidence and will help you preserve your freedom.

Leadership

45. India needs leaders who would let all credit for their success go to their subordinates, but are willing to shoulder the blame for any failures.
46. India needs young leaders who can transform India into a developed nation, embedded with a knowledge –based society from now to 20 years.
47. Role of a leader should change multidimensional, according to the time and situation. A captain demanding self-respect should grow to a coach, coach to a manager. Manager to an inspiring teacher, inspiring teacher to a director and then to a representative, who guards the respect of the nation.
48. We have abundant natural and human resources, what we need are young dynamic leaders.
49. In the next 20 years India needs a technological society and dynamic leaders, who can attract people like magnets to build powerful team.
50. Political system is all about creating responsible leaders and empowering the citizens to take the country to higher levels.
51. Only strength respects strength. We must be strong not only as a military power, but also as an economic power.
52. Efforts and endeavour are man's duty. Success or failure is God's domain.
53. Purpose of real education is to initiate a learning process that transforms children into good human beings with knowledge and value system.

Efforts and endeavour are man's duty.



Kalam's Call To The Nation

12. TECHNOLOGY FOR SERVICE, ECONOMY AND PROSPERITY

Only 30% of Indians living in cities and urban areas are enjoying the facilities of sophisticated hospitals and health care centres. Quality Healthcare should be made affordable to the poor and the rural masses. This was the message Dr. Kalam gave to those responsible for the nation's medical system.

Dr. Kalam is the first person to speak about marrying the IT prowess of India with its medical expertise to break out of the crucial bottleneck in the delivery of quality medicare in smaller towns and villages. Technology, which is universal by nature should not only make missiles but also help mentally and physically challenged people. A merger of multiple technologies is a must to redress the ills of the people.

Here are a few inventions made by Dr. Kalam and his associates.

1. Dr. Prasad, an orthopaedic surgeon from Nizam's Institute of Medical Sciences, was surprised when he saw the lightweight carbon-carbon (used in the preparation of missiles) in Dr. Kalam's laboratory. He asked Dr. Kalam to alleviate the pain of little children, from heavy metallic calipers, which weighed over 3 kilograms. In a very short span Dr. Kalam provided these little children with Floor Reaction Orthosis 300 gram calipers.
2. Renowned cardiologist, Dr. Somaraju and Dr. Kalam together made the cath-lab available for Rs. 50 lakh which previously would cost 2 crores.
3. Dr. Kalam, along with Dr. Soma Raju, developed Kalam- Raju stent. The price of which around Rs. 25,000 as imported ones (around Rs. 60,000), and is much in demand. It is a boon to the poor and the middle class heart patients. The invention of this stent has reduced the need for emergency bypass surgeries in patients with constricted heart-vessels.

Use technology for the service of mankind.



Kalam's Call To The Nation

4. Before his present assignment, i.e. Presidentship, he was teaching in Annamalai University and guiding an interesting project developing a trigger, either a "biochip" or some software to help mentally challenged children to compensate for their missing faculties.

Kalam's conversion of technology for service

- Medical professionals, scientists and engineers should join hands in developing technology, which would best remove the sufferings of the people.
- A space proper link-up between corporate hospitals, mobile clinics, including mobile Cath-Labs, could offer the best through telemedicine, one of the best ways to discover the symptoms. With this, 90% of major diseases of rural masses can be diagnosed and cured.
 - 1) Kalam has given three prescriptions to corporate hospitals.
 - ❖ To take the benefits of Angiogram and Angioplasty to heart patients in rural areas by introducing "Mobile Cath Labs" connected by telemedicine facility with their parent institutions.
 - ❖ To introduce "Mobile Clinics" for rural areas because they are mobile, economical and effective.
 - ❖ To establish a proper link up with corporate hospitals to make these mobile clinics including mobile Cath Labs to offer the best through telemedicine.
 - 2) To establish an indigenous digital laboratory.
 - 3) Biotechnologists should work towards developing vaccine for T.B., HIV and Malaria Biotechnologists in health care should work for fulfilling the goal of diagnosis and treatment of diseases affecting a large section .

Doctors, Engineers and Scientists together can develop technology.



Kalam's Call To The Nation

- 4) Have an open mind, in absorbing ideas and focus on economic prosperity and faster drug development
- 5) There is abundant natural wealth and vast human capital in India; concerted efforts should be made to translate these resources for the prosperity of the nation.
- 6) Biologists should not get frightened in exploring new areas, as long as it is for helping people to lead healthy disease-free life.
- 7) Dr. Kalam underscored the need to streamline Intellectual Property Rights (IPR) in tune with International standards to enable India to compete with the developed world.
- 8) State Governments should prepare electronic citizen cards with basic data on health.
- 9) Quoting from a book, he narrated how computer was capable of evolving into a medium that could match the human brain by 2019, and 1000 such human brains by 2029. He posed a question: "Will you allow the computer to dominate and get the better of the human mind?"
- 10) For India to be transformed into a developed nation along with health care, value addition of agriculture produce, information and communication technology, infrastructure development and emphasis on some of the critical technologies should form five priority areas mentioned in the chapter Developed India-Vision - 2020.

The president has stressed the importance of creating a "*knowledge-based society*," which in turn would help India live up to and reinforce its strength in industrial and agricultural sectors. Economic development and growth cannot be separated from social development and a true knowledge should lead to social transformation.

Create a knowledge-based society.



Kalam's Call To The Nation

13. DEVELOPED INDIA - Dr. KALAM'S VISION 2020

Nations are built by the imagination and untiring enthusiastic efforts of generations. One generation transfers the fruits of its toil to another, which then takes forward the mission. As the coming generation also has its dreams and aspirations for the nation's future, it therefore adds something from its side to the national vision, which the next generation strives hard to achieve. This process goes on and the nation climbs steps of glory and gains higher strength.

Dr. Kalam has three visions for a developed India.

Freedom (First vision)

In 3000 years of our history, people from all over the world have come and invaded us, such as the British, French, Mughals etc., but we never believed in invasions. Mahatma Gandhiji ignited a great vision in every Indian to free India from the clutches of the British. Both rural and urban people forgot their differences of caste, sex, region, religion, politics etc, to lead a National Movement with a single vision to achieve complete freedom for India. After achieving that vision of freedom, India has no more visions, but things keep going on and off.

As a country, we have not yet become bold enough to set a course of our own. When Gandhiji adopted Ahimsa and Satyagraha as weapons of obtaining freedom, it was regarded as a great innovation. But today we only want to imitate what others have done, be it in economic policy, industry, trade, science, technology, media or even literature. India has always assimilated many ideas, cultures and techniques and shaped them to suit its genius and environment. Indians too have gone abroad and disseminated our culture. We have contributed to technology as well; to name some, the

Imagination and untiring efforts of generations build a nation.



Kalam's Call To The Nation

Numbers Theory in Mathematics, Herbal Medicine and Metallurgy, Rocket Technology during the reign of Tippu Sultan. Today we see a new situation, in which high calibre scientists and technologists enrich the economies of USA and European countries. In India today, there are 300 million people living below the poverty line.

Development

During these 55 years, we have been developing quite well on many fronts. For example in the 1990s, India was 6th in the world with an improved gross domestic product of 6.1%. Now the 10th Five year plan has envisaged our growth to 10%. If this is achieved, per capita income doubles in 10 years. Population rate has decreased. Literacy rate has increased to 65%, poverty levels have decreased by 26% (in Andhra Pradesh 16% only). To improve industrial sector liberalization reforms took place in the first phase. Now in the second phase, agriculture is given importance. To improve, gross national per capita income certain goals have been fixed. By 2007, only 20% will live below the poverty line, and only 10% by 2012.

Fifth Place to First Place

India stands fifth in satellite technology, fifth in missile technology, fifth in nuclear technology. In other important technologies also, India stands at the fifth place in the world. India should come out of this "fifth country" syndrome and aim for something still higher. Then only the development of the country in all sectors is possible.

Dr. V. Kurien's group came out of this syndrome through milk revolution, and brought India to the first place in milk production in the world. In the same manner, we have to prove ourselves in all other sectors.

India has contributed to the world in various fields.



What is Second Vision and Why ?

As all the above achievements are globally appreciated, India is no more a developing country. We should build our confidence to make India a self-reliant and developed nation. In order to attain the highest peak, our aim should be high at both the individual and national level. A great vision is the prerequisite to achieve this. Without vision, neither an individual nor a nation can reach its destiny. Hence Dr. Kalam calls the nation to develop a second vision of Developed India – 2020 and take India to the top. This would give India a place in the G-8 a club of the eight most advanced countries of the world.

How will our developed India be?

Developed India will not be a nation of cities. It will be a network of prosperous villages empowered by tele-medicine, tele-education and e-commerce. The new India will emerge out of the combination of bio-technology, bio-science, agriculture sciences and industrial development. Political leaders will be working with the zeal born out of the knowledge that the Nation is bigger than individual interests and political parties. This attitude will minimize the rural-urban divide as progress takes place in the country side and urbanites move to rural areas to absorb the best of what nature can give in the form of products and wealth. This second vision itself will lead us forward and children and youth have a major role to play in order to achieve this Vision.

Dr. Kalam, with the help of various committees, workshops and consultations, made an exhaustive study in order to analyze and identify five areas of India's core competence for an integrated action.

Change in society comes from change in individuals.



Kalam's Call To The Nation

1. Agriculture and Food processing

360 million tonnes of food grain production should be the target. Apart from agricultural production, rural people should also take part in food processing to speed up economic growth.

2. Electric power

Reliable and quality electric power supply to all parts of the country is needed.

3. Education and health care

Education and health care are interdependent. If people are educated, they become more aware of health habits. As literacy develops, population will decrease and living standards will increase.

4. Information & communication technology

One of the India's greatest strength is Information Technology. It should be used to increase India's economic standards, promote education in remote areas and also create national wealth.

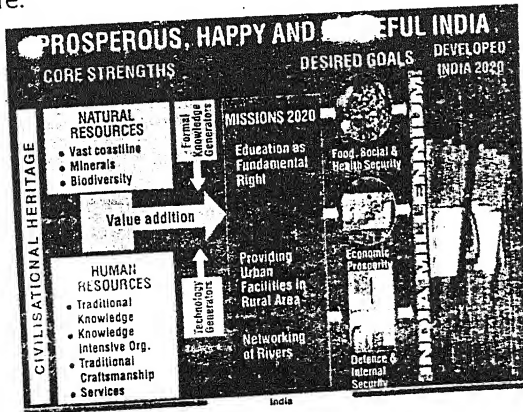
5. Strategic sector

Strategic sectors are crucial for the country's development. The Ministry of Defence has taken up a mission to increase self-reliance in indigenous defence systems from the present 30% to 70% by 2005. In 1960, we had a dream of developing our own satellite systems and now we are in a position to sell satellites and launch vehicles. Strategic sectors in India witnessed growth in Nuclear Technology, space and Defence Technologies. Other areas like Advanced sensors and materials need a push.

Unless India stands up to the world, no one will respect us.



The Developed India 2020 as visualised by Dr. Kalam is shown in the following figure.



Dr. Kalam also sets a vision of Technology for the next 50 years. He says that the lives of people will be enriched by Information, Communication Technology, Nano Technology, Bio-Technology and Space Technology. According to him, India in the next 50 years should exploit the following fields of research as shown in the fig (2) below.



Ignited billion souls is the resource of the nation.



Kalam's Call To The Nation

Strength

Nation belongs to people. Nation is built on the strength of the people, their thinking and working. India's strength is billion people's thinking. Let young minds blossom full of thoughts and let the thoughts be of prosperity. Hundred crores is our strength. We have to reply to the world's challenges in a befitting manner. We need not bow down to any one. Once we bow down, nobody will respect us. A powerful nation respects another powerful nation. Only strength respects strength. In this world, fear has no place. We must be strong, not only as a military power, but also as an economic power. Both must go hand in hand. National development and national security are interlinked. Any imbalance between these two will endanger security. War with Pakistan was recently averted because both India and Pakistan possess nuclear weapons. Some countries are apprehensive about India possessing nuclear weapons. If anybody has to be feared it should be the USA which possesses 10,000 nuclear warheads. Developed India by 2020 is a mission. Ignited young minds are a powerful resource. This resource is mightier than any other resource on the earth, in the sky and under the sea. We must all work together to transform our Developing India into a Developed India, and the revolution required for this effort must start in our minds.

The obvious indicators of a developed country are the wealth of the nation, the prosperity of its people and its standing in the international forum. There are many other indicators to assess wealth of the nation like Gross National Product (GNP), Gross Domestic Product (GDP), and per capita income. All of them only present certain facets of living conditions. These statistics do not indicate the long-term sustainability of the quality of life achieved by people. Many parameters are utilized to indicate the quality of life.

Peoples thinking and working builds the nation.



14. STEPS TO TAKE INDIA TO THE TOP

The Prime Minister of India is not allowed to attend the meeting of G-8, the eight-nation group of the most powerful nations. Kalam said, *"It is your duty to take India to the No. 1 position."*

A developed India should be able to take care of its strategic interests through its internal strengths and its ability to adjust itself to the new realities. For this, it will need the strength of its healthy educated and prosperous people and the strength of its economy as well.

"Developed India," he said, "can only be powered by economic strength." He then listed the steps needed to make India strong. But he added a rider, saying, such success can come from what he called, 'Invisible leadership'.

He gives a prescription for the country and its managers to develop India:

- Developed India is empowered by economic strength.
- Economic strength is powered by competitiveness.
- Competitiveness is powered by knowledge power.
- Technology is powered by resource investment.
- Resource investment is powered by revenues.
- Revenues are powered by volume and repeated sales.
- Volume and repeated sales are powered by customer loyalty.
- Customer loyalty is powered by the quality and value of products.

Strategic interests should be cared with internal strength.



Kalam's Call To The Nation

- Quality and value of productivity is powered by employee productivity.
- Employee loyalty is powered by employee satisfaction.
- Employee satisfaction is powered by working environment.
- Working environment is powered by management stewardship.
- Management stewardship is powered by invisible leadership.

Looking back at India's struggle for the first vision of independence, we do not believe that all actions took place simultaneously. People acted spontaneously, sometimes even clumsily and thus the freedom movement was launched. We believe that all of us, Indians, should actually do something. We need to initiate action with an overall vision of developed India, particularly on the lines given above. For this, some part of our time and energy too should be devoted for doing a specific task, which would be in keeping with this vision.

One of our endeavours has been the creation of awareness that India has to become big and strong. And to reach that status, we do not always have to take big steps. There are several small steps, which can take the present India to a status of a big India". This is an important message that we have to successfully convey to people.

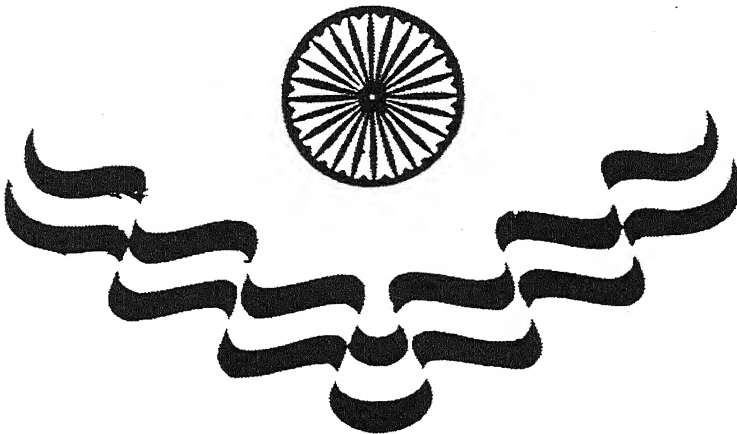
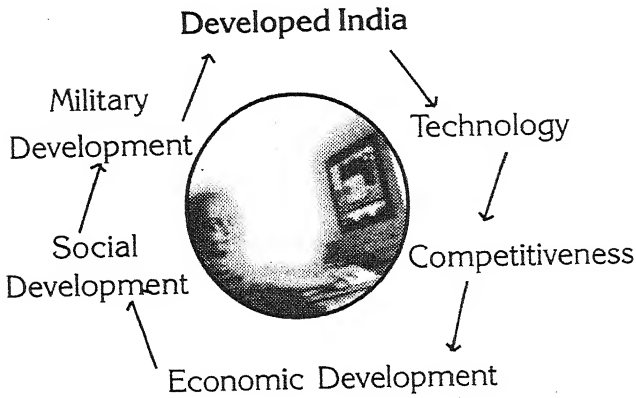
We are also aware of the number of people who volunteer to lead and be the members of such action-teams. It is a thrilling experience. In many places we have visited, many great scientists and specialists who are putting science into use, for the betterment of the poor. These personalities have sacrificed their own comforts to engage in such activities for many years. We call them *punyatmas* or good souls. We also found that administration helps this process, and we may call them *punyadhikaris*. We are now in search of *punyanetas*. Our job is to make this golden triangle of *punyatmas*,

Ignite national movement now, like freedom movement in the past.



Kalam's Call To The Nation

DEVELOPMENT CYCLE



Authors product of expanding intelliect right from mothers womb.

30 months old Govu Pavan expanding creativity on computers



Kalam's Call To The Nation

punyardhikaris and punyanetas work countrywide, so that a lot of action can be initiated and promoted at the grassroots level.

We have one billion Indians. A few tens of these millions of them have lifestyles equivalent to or even more luxurious than the upper strata of the developed world. They enjoy the material wealth and the facilities offered by modern technologies, and simultaneously enjoy the benefits of cheap labour. Another 200 to 300 million Indians, the so-called middle class, have a varied lifestyle, often aspiring to copy the developed world but having only limited resources. They face the stress of modern life but often do not have the facilities for good living. The rest of the population is engaged in jobs, which leave it confronted with constant insecurities about making ends meet.

"It is our duty to build necessary technologies today so that the future generation of Indians will have a new world to conquer and not have to struggle with the problems of 'bridging the past gaps' as we are doing today. We owe it to the future generations that we hand them over by 2020, only the excitement and challenges of the future and not the weight of the problems of the past or the crisis of the present. Only then, India will have truly arrived as a developed country, populated with proud people, confident of their future."

We owe to future generation to give developed India.



15. NEED FOR A CHANGE OF SOCIAL ATTITUDE

Dr. Kalam asks, "Why are we as a nation so obsessed with foreign things? We want foreign TV, and we want foreign technology. Why this obsession with everything imported? Do we not realize that self-respect comes with self-reliance?"

"Why do we behave differently? You say that our Government is inefficient. You say that the municipality does not pick up the garbage. You say that phones don't work, railways are a joke, the airline is the worst in the world, mails never reach the destination. You say that our country has been fed to the dogs and is the absolute pits.

Take a person on the way to Singapore. Give him a name – Yours. You walk out of the airport and you are at your international best. In Singapore you don't throw cigarette butts on the roads or in the stores. You are as proud of their underground links as they are. You pay \$5(approx. Rs 60) to drive through Orchard Road between 5 pm and 8pm. "You come back to the parking lot, punch your parking ticket if you have stayed in a restaurant or a shopping mall, irrespective of your status identity. In Singapore, you don't say anything, do you?"

You would not dare eat in to public during Ramzaan in Dubai. You would not dare to go out without your head covered in Jeddah. You would not dare to buy an employee of the telephone exchange in London at 10 pounds (Rs. 650) a month to 'see to it that my STD and ISD calls are billed to someone else'. You would not dare go speed beyond 55 mph (88 Kmph) in Washington and then tell the traffic cop, 'Janta hai main kaun hoon'(Do you know who I am?). I am so and so's son. Take your two bucks and get lost'. You would not chuck an empty coconut shell anywhere other than the garbage pail on the beaches in Australia and New Zealand. Why do you not

Change in individuals brings social change.



Kalam's Call To The Nation

spit paan on the streets of Tokyo?

“Why don't you use examination jockeys or buy fake certificates in Boston? We are still talking of the same, you, who can respect and conform to a foreign system in other countries but cannot in your own. You, who will throw papers and cigarettes on the road the moment you touch Indian ground. If you can be an involved and appreciative citizen in an alien country why cannot you be the same here in India?

“Why is the media so negative in India? Look at Dr. Sudershan, he has transformed the tribal village into a self-sustaining, self-driving unit. There are millions of such achievements but our media is only obsessed with bad news, failures and disasters. I was in Tel Aviv once and I was reading the Israeli newspaper. It was the day a lot of attacks and bombardments and deaths had occurred. The Hamas had struck. But the front page of the newspaper had the picture of a Jewish gentleman, who in five years had transformed his desert land into an orchid and a granary. It was this inspiring picture that everyone woke up to. The gory details of killing, bombardments and deaths, were inside in the newspaper, buried among other news. In India, we only read about deaths, sickness, terrorism, crime. Why are we so negative?

“So, who is going to change the system? What does a system consist of? Very conveniently for us, it consists of our neighbours, other households, other cities, other communities and the Government. But definitely not me and YOU. When it comes to us, actually making a positive contribution to the system, we lock ourselves along with our families into a safe cocoon and look into the distance at countries far away and wait for a Mr Clean to come along and work miracles for us with a majestic sweep of his hand. When the Gulf war-struck, we demanded to be rescued and were brought home by the Indian Government. Everybody is out to abuse and rape the country. Nobody thinks of feeding the system. Our conscience is mortgaged to money. Dear

How well you behave in other countries - do the same in India.



Kalam's Call To The Nation

Indians, this article is highly thought inductive, calls for a great deal of introspection and pricks one's conscience. I am echoing J F Kennedy's words to his fellow Americans to relate to Indians...

"Ask what we can do for India and do what has to be done to make India what America and other western countries are today. Let's do what India needs from us."

Need of the hour!!!

Stop condemning, commenting and criticizing the situation in the country; rather think of solutions. If billion Indians think constructively for complete development, India will become a developed nation. It is not an impossible task, so contemplate on the following points.

"Why are we in India so embarrassed to recognize our own strengths, our achievements? We are such a great nation. We have so many amazing success stories but we refuse to acknowledge them. Why? We are the first in milk production. We are number one in remote sensing satellites. We are the second largest producers of wheat and rice.

"You must proclaim that India is not an under-developed nation; it is a highly developed nation."

The above call was given to the nation, during Dr. Kalam's presidential swearing-in ceremonial speech.

Think... Realise

- People make a Nation great, and people in turn become important citizens of that great nation.
- India has to think as a nation of a billion people. A nation's progress depends upon how its people think. It is thoughts, which are transformed into actions. Let the young minds blossom – full of thoughts, the thoughts of prosperity.

Play your role in changing the system.



Kalam's Call To The Nation

- Our dream is for the second vision of a great nation: India will transform herself into a developed nation before the year 2020. Our billion people are our resource for this national transformation. The focussed action of one billion citizen with varied capabilities will realize the dream.
- We have to recognize that technology is the tool that brings faster economic growth and needs inputs for national security. The successful experience of technological leaders reveals that we have to demand from our institutions the impossible, and the possible will emerge.
- India's core competence in certain technological areas and scientific and technological manpower has to be harnessed. Through our sustained efforts for growth of core competence and self-reliance in critical technologies, we can transform our nation to a developed one.

Call to the Nation

- This is the time to ignite the minds of the people for the movement. We will work for it. The ignited soul compared to any resource is the most powerful resource on the earth, above the earth and below the earth.
- Making India strong and self-reliant economically, socially and militarily is our foremost duty in our motherland.
- The first and foremost task is to respect and uphold the constitutional processes, in the best interest of our people and our Nation, without fear or favour and with fairness.
- The most important and urgent task before our leadership is to get together all forces for constructive change and deploy them in a mission mode. Diversity in various aspects is our greatest strength. However, fragmented thinking, compartmentalized

Desamante Manushuloi. The nation is the people.



Kalam's Call To The Nation

planning and isolated efforts are not yielding results. People have to come together to create a harmonious India.

- The process of confronting and solving problems often requires hard work which is painful. We have endless procrastination. In reality, problems can be the cutting edge that actually distinguish between success and failure. They draw out innate courage and wisdom.
- He advises the politicians “when the political leaders of the nation empower the people through visionary policies, the prosperity of the nation is certain. In a series of meetings he had with the MPs of each state, he questioned them “where ever I go I meet a lot of children, and each time I ask them, ‘who is your role model’, sometimes they say it is a scientist, or a teacher or their mother or father. But why is it nobody ever tells me that my MP is my role model?”.

Empowerment

When the **child** is empowered by the parents, at various phases of growth, the child gets transformed into a responsible citizen. When the **teacher** is empowered with knowledge and experience, young human beings with strong value systems are shaped. **Value systems** take shape when the individual or a team is empowered with technology. Then transformation to higher potential for achievement is assured. When the **leader** of any institution empowers his or her people, leaders are born who can change the nation in multiple areas. When **women** are empowered, society with stability gets assured. When the political leaders of the nation empower the **people** through visionary policies, prosperity of the nation is certain. When the religion transforms into a spiritual force people become enlightened citizens with value system.

“Knowledge blended with value system” empowers a person, to achieve greater heights in his life.

Demand the impossible and possible will emerge.



Kalam's Call To The Nation

LEAD-NATIONAL MOVEMENT



A century back all the Indians participated in the freedom struggle, sacrificing their lives, property and everything they could to achieve freedom. After independence, in the last half century, lack of such common goal has resulted in the deterioration of patriotic spirit and values.

Dr. Abdul Kalam who grew from a paperboy to the president of India is a classic role model for individual development, thereby national development. As a visionary, he capsuled the 2nd Vision for Developed India by 2020. Sri Chandra Babu Naidu, honorable Chief Minister of Andhra Pradesh also capsuled "Swarnandhra Pradesh-vision 2020" and is successfully leading Andhra Pradesh to national and international levels.

Dr. Kalam calls for a 2nd vision Movement like the freedom movement in the past to work hard to take India to the top of the world by 2020. Today, our students' Intellectual Capability is appreciated all over the world. Now, there is every need to inculcate:

- (i) Scientific temper in students, so that indigenous technology develops the economy of the state.
- (ii) Patriotic spirit for unity of minds and single-minded goal for the growth of the nation.
- (iii) Human values for human excellence.

To achieve these objectives, many awareness programmes on Vision 2020 among the student community are planned. LEAD (Leadership Awareness and Development Foundation) has conceived to start LEAD National Movement from Andhra Pradesh.

National Movement is like freedom movement for developed India 2020.



Kalam's Call To The Nation

Every school and college in Andhra Pradesh will be enrolled as units, thereby their students will be enrolled as members. Awareness will be created about Vision 2020 and their minds will be ignited to achieve the above three objectives. Students will be involved in various competitions like quiz, elocution, essay writing, seminars and workshops by experts in five core areas i.e. agriculture, education, health care, electricity, information technology and strategic sectors.

Separate committees with eminent personalities of these five core areas are formed as follows.

Information & Technology & communications :

Dr. T. Hanuman Chowdary, advisor (IT & C) Govt. of A.P., Chairman LEAD.
Dr. J.C. Mohanthy, Principal Secretary (IT & C) Advisor LEAD.

Education :

Dr. I.V. Subba Rao, Principal Secretary, School Edn. Hon' Chariman LEAD.
Sri G. Pulla Reddy, Chairman, G. Pulla Reddy Charities Trust, Advisor LEAD.
Dr. U. Malakonda Reddy, President, Pvt. Engg. Colleges, Advisor LEAD.
Dr. C. Ramaiah, Director, IIT Coaching Centre, Advisor LEAD.
Dr. Y. Arun Kumar, Secretary, Bala Bharathi, Joint Co-ordinator LEAD.

Health Care :

Dr. Kakarla Subba Rao, Director, NIMS, Advisor LEAD.
Dr. B. Parthasarathy Reddy, C & MD., Hetro Drugs Ltd., Founder Member LEAD.

Agriculture and Food Processing :

Dr. I.V. Subba Rao, Ex-Vice-Chancellor, Agri. University, Vice-Chariman LEAD.

Strategic Industries :

Sri Prahlada, Director, DRDL, Hyderabad, Advisor LEAD.
Ln. J. Jagan Mohan Reddy, M.D., Twincities Plastics, Pvt. Ltd., Org. Secretary LEAD.

Transform our school and college students into enlightened citizens.



Kalam's Call To The Nation

Power :

Sri D.J. Ramesh, Chairman, Vijaya Electricals Ltd., Founder Member LEAD.

The above area wise committees will be further supported by many other distinguished Professors, Principals, experts and Industrialists of the core areas formulating into co-ordinating committees area wise and region wise. They will guide the student committees to develop technology for the masses. The similar exercise will be repeated in all other states for a nation wide movement for Vision-2020.

Let every one be a part of LEAD National Movement and lead like freedom movement in this 2nd vision and be privileged like freedom fighters by taking India to the top of the world by 2020.

Read, reread and circulate in all your circles, fill up the forms, attend and conduct discussions, seminars and competitions to bring mass awareness about the Vision 2020 to lead this national Movement. Participate in National Movement essay competition on "My goal for my development and my contribution to take India on top of the world by 2020". Send your essay before 15th September, 2003 to LEAD office. 7th to 10th will be regarded as one category and college students another category. You are sure to get participation certificate and State 1st will get Rs. 10,000/-. (Those who are competing through schools need not send their essays seperately).

Let us be privileged like freedom fighters by taking India to the top of the world by 2020.

Dr. N. B. Sudershan

Founder Secretary LEAD, National Movement.

Be the builders of our nation !



Kalam's Call To The Nation

O, Youth of India !

*O, Youth of India !
Wake up from your drowsy sleep !
Give your surroundings a thought & peep,
Don't forget we are in the 21st century,
When swift action is needed
In this Hypersonic Age !*

*Words without deeds are all invain
Service to one's country is Service Divine,
Loving your country means Loving your mother,
Ponder over our age-long poverty
Prevent our country from that calamity
Mind that those who serve the needy and helpless
Are always blessed with longevity and tranquility*

*India's progress should be thy aim,
Follow the foot-steps of our beloved Dr. Kalam
And his call to our Nation !
A man in power, and position high,
A man humble in service and gentle in disposition,
A dreamer, motivator, scientist and great visionary
Who rose to the high position of "President of India"
From a humble position of "A paper-boy" !*

*Like him inspire, ignite and instil
Scientific temper in children all -
The future saviours of our Big Nation !
And make success our Doctor's vision-2020
Be earnest and brave
Our country to save and serve !
With one smile, one mind, one heart
Thus be the builders of "New Developed India-2020"
With solute, do I dedicate this
To our beloved President of India, Dr. Kalam.*

*- Mudunuru Venkateswara Rao
Educationist - Senior Journalist*

Be the builders of our nation !



Kalam's Call To The Nation

Dr. Kalam called upon the children and the youth of India to sing "song of youth". It motivates to make an attempt to transform India into a nation developed in all aspects.

Song of Youth

Me and My Nation - India

*As a young citizen of India,
armed with technology, knowledge and love for my nation,
I realise, small aim is a crime.*

*I will work and sweat for a great vision,
the vision of transforming India into a developed nation
powered by economic strength with value system.*

*I am one of the citizens of a billion,
only the vision will ignite the billion souls.*

*It has entered into me,
the ignited soul compared to any resource,
is the most powerful resource on the earth,
above the earth and under the earth.*

*I will keep the lamp of knowledge burning
to achieve the vision – Developed India.*

Youth are pillars of the Nation

Kalam's Call To The Nation



MEMBERSHIP FORM
(for Students / Teachers / Institutions)

LEAD NATIONAL MOVEMENT

For Developed India - 2020, A.P. Chapter.

LEAD Oasis School of Excellence, Raidurg, Hyderabad-500 008.

Membership Fees : Your Hearty participation in National Moment

1. NAME :
2. QUALIFICATION :
3. SCHOOL/COLLEGE :
4. ADDRESS (RES) :

Pin :

Ph.No. : Res : School :

E-mail Id :

5. a. Would you like to participate in National Movement Programmes. Yes/No

i. Training the students / teachers Yes/No

- ii. Sparing time :
- 1. To participate :
 - 2. To organise :
 - 3. Daily :
 - 4. Weekly :
 - 5. Monthly :

6. Promise in your own words about your strengths and plans to participate in the Developed India - 2020 programmes.

Date :

Signature
(Seal In case of Institution)

Cut here



Kalam's Call To The Nation

I studying in class
in School promise to be one
among one lakh students being cogregated by "Federation of Recognised
School Correspondents Associations of A.P." on October 15th 2003 to
celebrate 73rd birth Anniversary of our beloved President of India Dr.
A.P.J. Abdul Kalam and National Movement from
Andhra Pradesh.

Signature of the Student

*In co-ordination with federation I will do my best to make this
historic program a great success by sending the above student.*

Signature of the Head Master

AN APPEAL TO ALL ASSOCIATIONS AND INSTITUTIONS

*Federation of Recognised Schools Correspondence Associations
(FRSCA) appeals to all other associaitons and institutions to unite their
minds and form into action teams to involve students and teachers to
lead national movement to take India to the top of the world by 2020.*

Chief Advisor
Dr. N.B. SUDERSHAN

President
FAZAL-UR-RAHMANKHURRAM

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As much as you involve so much so you evolve



Kalam's Call To The Nation

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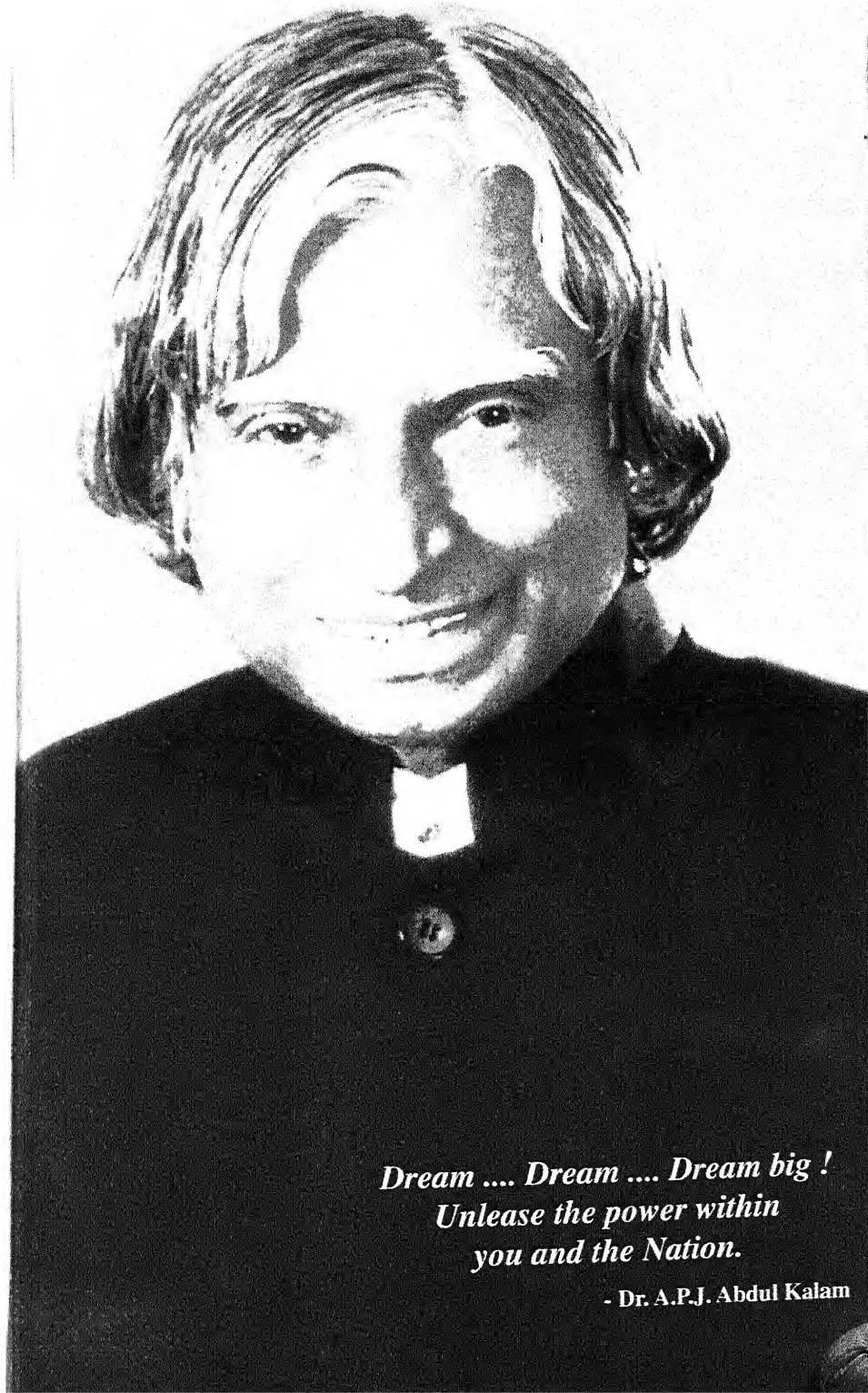
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*Dream Dream Dream big !
Unleash the power within
you and the Nation.*

- Dr. A.P.J. Abdul Kalam

About the author



Dr. N.B. Sudershan, is the founder of Bala Bharathi Sikshana Samithi, Bala Bharathi Human Values and Potential R&D Foundation. He invented a model to inculcate human values and ignite potential in children for which he was awarded Ph.D (Human Values) by Osmania University. He has been conducting research camps on human values and potential for the past 24 years. He has also invented educational models.

- i) For pregnant women to improve the intelligence of babies
- ii) For 3 months to 30 months old babies to expand creativity, observative skills and imitational skills.
- iii) For 2^{1/2} years to 8 years children to explore expansion of creativity, cognitive skills, language skills, communicative skills and habit & character formation.

Presently as **Principal & Correspondent of Oasis School of Excellence**, he is leading a research team to amalgamate tradition & technology and creativity in children. Shortly all these research projects are going to be submitted to the society as **"Bala Bharathi Gurukul"** of Human Excellence at Hyderabad.

Dr. Sudershan as an educator and trainer, has been conducting Leadership Awareness and Development programmes for youth over the past 13 years. Thousands of trained potential youth exemplified themselves around the globe with their value systems. Now he is inspiring youth to **LEAD National Movement** "for developed India 2020".

The aim of this book is to ignite millions of young Indians to develop themselves and the nation. He has also **authored best selling books** for children and youth Viz **Kargil an inspiring chapter in India history, Secrets of Success, Bala Bharathi Bala Siksha, Noorendla Panta** etc.,

For his innovative dedicated services he has been honoured with **"Vidya Marthanda" Award - 2002** by Bharatiya Sanskriti Nirman Parishad and **"Eminent citizen of India" Award - 2003** by National & International Compendium.

He is born and brought up in Hyderabad. His education includes MBA., L.L.B. Ph.D. He is married to N.B. Padmavathy. They have four children Nalloboina Srenevas, Revathy, Jyothi and Malathy.